RESEARCHES OF THE DEPARTMENT OF
TERRESTRIAL MAGNETISM
VOLUME XX

Cosmic-Ray Results

from

Huancayo Observatory, Peru, 1946-1955

Cheltenham, Maryland, 1936-1955

Christchurch, New Zealand, 1947-1955

Godhavn, Greenland, 1947-1950

ISABELLE LANGE
S. E. FORBUSH

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RESEARCHES OF THE DEPARTMENT OF TERRESTRIAL MAGNETISM

VOLUME XX

Cosmic-Ray Results

Huancayo, Peru, January 1946—December 1955

Instituto Geofísico de Huancayo

Cheltenham, Maryland, March 1936—December 1955

U. S. Coast and Geodetic Survey, Cheltenham Magnetic Observatory

Christchurch, New Zealand, January 1947—December 1955

Department of Scientific and Industrial Research, Magnetic Survey Division

Godhavn, Greenland, January 1947—December 1950

Det Danske Meteorologiske Institut, Geofysisk Observatorium

ISABELLE LANGE
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FOREWORD

This is a second volume of cosmic-ray publications which, we trust, will remain in scientific libraries throughout the world as a monument to the sustained cooperative efforts of a group of men with warm and lasting interest in the phenomena of geophysics. The elusive origins of the very high-energy radiations which come to our atmosphere from unknown reaches of space have not been satisfactorily delineated by theory or by experiment, as yet. Because the orbits of charged particles are so comprehensively changed by their encounter with the magnetic field of the earth, directions of arrival of these radiations do not appear to be reliable indicators of the origins of the particles. Time variations of the radiations, however, suitably interpreted, may give some firm indications of the mechanisms in space which yield radiations of such enormous energies as are observed in cosmic-ray work. This was the expectation more than two decades ago when the world network of cosmic-ray observing stations was set up by the Carnegie Institution at the request of the late Professor R. A. Millikan, Professor A. H. Compton, and the late Dr. J. A. Fleming, who died in midsummer 1956. This volume presents in detail the data obtained at the Instituto Geofísico de Huancayo, Huancayo, Peru, and at the station operated by the U. S. Coast and Geodetic Survey at Cheltenham, Maryland. The Cheltenham instrument was moved to the new U. S. Coast and Geodetic Survey station near Fredericksburg, Virginia, in October 1956. The data obtained at Christchurch, New Zealand, and at Godhavn, Greenland, are summarized in this volume.

The principal guidance for these studies has been in the hands of Scott E. Forbush of this Department, and a great deal of the technical computation and analysis has been carried out by Miss Isabelle Lange, with assistance from Mrs. Liselotte Beach. The faithful work of the several observers in the operation and maintenance of the cosmic-ray meters at the institutions mentioned was of course a foundation on which this work rests. Grateful acknowledgment is made to the Instituto Geofísico de Huancayo and its Director, Dr. A. A. Giesecke, Jr., for providing records from that station. These were obtained with equipment transferred as part of the Huancayo Magnetic Observatory by gift of the Department of Terrestrial Magnetism to the Peruvian Government on July 1, 1947. Special acknowledgment is due the staff of the Christchurch Magnetic Observatory for having scaled all the hourly cosmic-ray records at that station since April 1936.

The Carnegie Institution is happy to have the privilege of publishing this joint volume for the various institutions concerned.

M. A. Tuve, Director
Department of Terrestrial Magnetism
Carnegie Institution of Washington

PREFACE

The installation, operation, and maintenance of the four Compton-Bennett ionization chambers which provided the data for this volume would have been impossible without the enthusiastic co-operation of several organizations and individuals. To the Instituto Geofísico de Huancayo and its Director, Albert A. Giesecke, we are grateful for making available the records from Huancayo. These were obtained with equipment belonging to the Huancayo Magnetic Observatory, which was transferred July 1, 1947, by gift of the Department of Terrestrial Magnetism to the Government of Peru. We express our appreciation to the Director of the U. S. Coast and Geodetic Survey for providing space for the meter at the Cheltenham Magnetic Observatory, and to the members of the staff of that observatory for efficient operation and maintenance of the equipment. Grateful acknowledgment is also made to the Director of the U.S. Coast and Geodetic Survey for providing a building for the cosmic-ray meter at its new Fredericksburg (Virginia) Magnetic Observatory and to the observer in charge there, Robert E. Gebhardt, for transferring the meter from Cheltenham in October 1956. We acknowledge the co-operation of the Director, Magnetic Survey Division, Department of Scientific and Industrial Research of New Zealand, for making available the facilities of the Geophysical Observatory at Christchurch; and to the Director and staff of that observatory we are particularly grateful, not only for efficient operation and maintenance of the meter, but also for scaling all the hourly cosmic-ray records for that station since April 1936. We also wish to thank the Director, Det Danske Meteorologiske Institut, and the Director and staff of its Geofysisk Observatorium at Godhavn, Greenland, for the effective operation and maintenance of the meter there. Grateful acknowledgment is made to the Government of Denmark for transportation of equipment and supplies to Godhavn.

Isabelle Lange and S. E. Forbush
Department of Terrestrial Magnetism

COSMIC-RAY RESULTS FROM HUANCAYO, PERU; CHELTENHAM, MARYLAND; CHRISTCHURCH, NEW ZEALAND; AND GODHAVN, GREENLAND

INTRODUCTION

Volume XIV of Researches of the Department of Terrestrial Magnetism (Carnegie Institution of Washington Publication 175) contained cosmic-ray data from Huancayo, Cheltenham, Christchurch, and Godhavn through 1946. The present volume includes data subsequently obtained through 1955 from Huancayo, Cheltenham, and Christchurch; and through 1950 from Godhavn. Volume XIV also contained summaries of data for all four stations, and bihourly mean values for Huancayo. The present volume extends the summaries for all four stations and in addition includes not only bihourly mean values from Huancayo for the period January 1946 through December 1955, but also bihourly mean values from Cheltenham for the period March 1936 through December 1955.

Volume XIV described a typical installation, the instrument used, the absolute values of ionization, and procedures for reduction of the data. It also gave the geographical co-ordinates, the altitude, and the geomagnetic latitude of the stations.

REDUCTION OF DATA

For Huancayo the data in the present volume were reduced as described in detail in Volume XIV, except that after 1945 no IBM (International Business Machines) equipment was available to facilitate the reductions. The barometric coefficients used throughout are those given in Volume XIV.

The barometric pressure data for Huancayo were from an ordinary Richard barograph, and those for Christchurch were from a microbarograph. For Godhavn and Cheltenham the corrections for barometric pressure were scaled directly from the trace of the recording aneroid barometer on the cosmic-ray record.

Since installation of the meters at Huancayo and Cheltenham, the argon pressure at 15°C has remained constant through 1955 at 740 and 700 lbs. in.$^{-2}$, respectively. For Christchurch the argon pressure at 15°C has remained constant through 1955 at 740 lbs. in.$^{-2}$ since November 10, 1938; and at Godhavn it has stayed constant from September 1944 through 1955 at 580 lbs. in.$^{-2}$. For Godhavn all departures from balance have been normalized to argon pressure 700 lbs. in.$^{-2}$.

It is important to note that all data in the present volume, as in Volume XIV, are corrected only for barometric pressure. No other meteorological corrections have been applied. Consequently, seasonal waves are present in the data for all stations, except perhaps Huancayo. In addition, the data at all stations except Cheltenham indicate slow changes in the background intensity. These instrumental drifts and seasonal variations are described in "World wide cosmic-ray variations, 1937-1952," Journal of Geophysical Research, vol. 59, no. 4, December 1954, pp. 525-542.

DESCRIPTION OF TABLES

Huancayo Magnetic Observatory

Tables 1-120.—Monthly tables for the period January 1946 through December 1955 contain bihourly mean values of departure from balance, corrected to 510 mm Hg. Bihourly mean values are centered at the indicated 75th west meridian hours for Tables 1-108 (January 1946 through December 1954) and at the indicated Greenwich mean hours for Tables 109-120 (January through December 1955). Tabular values are in units of 0.1 per cent of total cosmic-ray ionization, with 6.0 per cent added.

Tables[1] 121-130.—Annual tables for the period 1946 through 1955 contain daily means of hourly departures from balance, corrected to 510 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization with 6.0 per cent added. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables[1] 131-140.—Annual tables for the period 1946 through 1955 contain bihourly values of diurnal variation in departures from balance, corrected to 510 mm Hg, centered at the indicated 75th west meridian hours for 1946-1954 and at Greenwich mean hours for 1955. Tabulations are by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November,

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[1] Tables 121 and 131 of this volume supersede Tables 125 and 136, respectively, of Volume XIV. Except for typographical errors, the discrepancies between corresponding tabular values arise from rounding off differences in computational procedures. Values in Tables 121 and 131 of this volume derive directly, without rounding off differences, from the tabulated bihourly means in this volume.

December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 6.0 per cent added.

Table 141.—The tabular values give the total number of bursts in the indicated size interval, S, for each year at Huancayo. S is in units of 0.1 per cent of the total number of ions produced in one hour by cosmic rays. Thus a burst of 1.0 per cent contains about 2.7×10^7 ions. From 1936 through 1940 the size of bursts was measured in millimeters to the nearest 0.5 mm. From 1941 through 1955 the burst sizes were measured directly in units of 0.1 per cent of the total number of ions produced per hour by cosmic rays. Thus the number of bursts within a given size interval in millimeters is a function of the sensitivity. If $N(s_0)$ indicates the number of bursts of size greater than or equal to s_0, then $N(s_0)$ is found to be closely approximated by:

$$N(s_0) = \frac{C}{s_0{}^2},$$

with C a constant. Departures from this distribution law, at least within yearly samples, are probably not statistically significant. For a given scale value, e_0, in per cent per mm (determined principally by the electrometer sensitivity) the number of bursts (occurring in a given time interval T) in the size interval, s_1 mm to s_2 mm, is approximately:

$$\Big[N(s_1) - N(s_2)\Big]_{e_0} = C\left[\frac{1}{s_1{}^2} - \frac{1}{s_1{}^2}\right].$$

Let

$$\Big[N(s_1) - N(s_2)\Big]_{ke_0}$$

be the number of bursts which would have been expected (in the same time interval, T) in the size interval, s_1 mm to s_2 mm, if the scale value had been ke_0, per cent per mm; then

$$\Big[N(s_1) - N(s_2)\Big]_{ke_0} = \frac{C}{k^2}\left[\frac{1}{s_1{}^2} - \frac{1}{s_2{}^2}\right],$$

and

$$\Big[N(s_1) - N(s_2)\Big]_{e_0} = k^2\Big[N(s_1) - N(s_2)\Big]_{ke_0}$$

The last equation was used to estimate the expected number of bursts in given size intervals (in mm) for a constant scale value, $e_0 = 0.200$ per cent per mm. The smallest size interval for which the number of bursts is tabulated in Table 141 for the period 1936 to 1940 is 0.50 per cent to 0.70 per cent. This corresponds to a size interval 2.5 mm to 3.5 mm for $e_0 = 0.200$ per cent per mm. Normally the scale values remained essentially constant for periods of about two months. The range of scale values was from 0.186 to 0.239 per cent per mm, from 1936 through 1940.

Cheltenham Magnetic Observatory

Tables 142-367.—Monthly tables for the period March 1937 through December 1955 contain bihourly mean values of departure from balance, corrected to 760 mm Hg. Bihourly mean values are centered at the indicated 75th west meridian hours for Tables 142-355 (March 1937 through December 1954) and at the indicated Greenwich mean hours for Tables 356-367 (January through December 1955). Tabular values are in units of 0.1 per cent of total cosmic-ray ionization, with 10.0 per cent added.

Tables[2] 368-386.—Annual tables for the period 1937 through 1955 contain daily means of hourly departures from balance, corrected to 760 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 10.0 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables[2] 387-405.—Annual tables for the period 1937 through 1955 contain bihourly values of diurnal variation in departures from balance, corrected to 760 mm Hg, centered at the indicated 75th west meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 10.0 per cent added to obtain the tabulated values.

Christchurch Magnetic Observatory

Tables 406-414.—Annual tables for the period 1947 through 1955 contain daily means of hourly departures from balance, corrected to 29.00 in. Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 415-423.—Annual tables for the period 1947 through 1955 contain bihourly values of diurnal variation in departures from balance, corrected to 29.00 in. Hg, centered at the indicated 172°.5 east meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization.

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[2] Tables 368 to 377 and Tables 387 to 396 of this volume supersede respectively Tables 143 to 152 and Tables 153 to 162 of Volume XIV. Except for typographical errors, the discrepancies between corresponding tabular values arise from rounding off differences between computational procedures. Values in Tables 368 to 377 and in Tables 387 to 396 of this volume derive directly, without rounding off differences, from the tabulated bihourly means in this volume.

Godhavn Magnetic Observatory

Tables 424-427.—Annual tables for the period 1947 through 1950 contain daily means of hourly departures from balance, corrected to 760 mm Hg. Tabular values, by months, are in units of 0.1 per cent of total cosmic-ray ionization, with 13.0 per cent added to obtain the tabulated values. Superscripts a to k indicate the number of missing bihourly values 1 to 11, respectively.

Tables 428-431.—Annual tables for the period 1947 through 1950 contain bihourly values of diurnal variation in departures from balance, corrected to 760 mm Hg, centered at the indicated 45th west meridian hours, by months, seasons, and years, from days with complete records. Means for three groups of four months each are designated by Roman numerals, as follows: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August. Tabular values are in units of 0.01 per cent of total cosmic-ray ionization, with 13.0 per cent added to obtain the tabulated values.

Corrected Tabular Values

Miscellaneous corrections of tabular values appearing in Carnegie Institution of Washington Publication No. 175, Volume XIV, are given on pages 438 to 441.

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Corrected Tabular Values

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TABLE 1

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1	107	100	105	105	100	107	104	109	111	108	101	99		1256	105				1
2	104	103	109	110	114	105	114	112	113	114	109	102		1309	109				2
3	116	110	109	99	101	98	105	100	87	92	98	98		1213	101				3
4	97	95	106	92	90	100	103	108	102	102	102	101		1198	100				4
5	97	103	105	102	112	114	99	99	106	100	99	97		1233	103				5
6	104	108	100	110	114	115	113	111	111	102	111	113		1312	109				6
7	111	107	104	113	105	108	109	109	104	104	111	110		1295	108				7
8	106	102	118	102	110	108	112	107	115	105	112	110		1307	109				8
9	112	109	108	111	116	112	110	113	113	106	107	99		1316	110				9
10	105	103	105	102	113	115	104	108	108	110	109	98		1280	107				10
11	108	117	117	112	111	113	107	105	110	106	108	104		1318	110				11
12	104	109	111	112	114	102	114	108	114	107	108	107		1310	109				12
13	106	105	109	113	106	112	110	107	108	110	107	104		1297	108				13
14	107	114	108	111	113	114	109	112	112	116	110	102		1328	111				14
15	114	119	117	114	105	111	106	106	106	111	108	106		1323	110				15
16	101	109	107	112	110	102	113	111	103	101	110	105		1284	107				16
17	103	112	108	107	109	115	108	99	104	110	107	105		1287	107				17
18	113	110	115	108	118	108	99	108	107	103	103	110		1303	108				18
19	104	117	110	112	111	112	104	103	101	107	105	106		1292	108				19
20	104	111	109	104	106	107	102	108	104	107	103	101		1266	106				20
21	107	106	107	104	109	108	110	109	106	108	108			(1182)	(107)″				21
22						106	107	115	104	115	111	102		(760)	(109)[7]				22
23	107	107	114	105	112	113	99	115	102	107	114	104		1299	108				23
24	105	102	104	104	103	102	107	101	105	106	110	98		1247	104				24
25	96	104	103	108	106	106	106	109	102	110	107	101		1258	105				25
26	101	106	106	102	113	108	114	104	109	106	102	105		1276	106				26
27	104	107	99	111	107	105	104	103	107	102	113	106		1268	106				27
28	102	102	113	106	109	106	108	105	105	110	104	101		1271	106				28
29	108	97	106	110	109	106	104	116	105	112	110	113		1298	108				29
30	104	108	106	103	107	113	110	113	114	107	111	110		1306	109				30
31	105	105	109	112	110	115	115	112	116	112	114	104		1319	110				31
Sum	3055	3101	3140	3112	3154	3154	3112	3121	3094	3093	3113	3019		37268	3107	107.1	(29	days)	
Mean	105.3	106.9	108.2	107.3	108.8	108.8	107.3	107.6	106.7	106.7	107.3	104.1		12851	3323	107.2	(31	days)	
														107.1					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 2

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1	114	113	102	109	113	104	117	108	112	111	108	106		1317	110				1
2	112	102	115	104	102	105	105	114	110	101	111	106		1287	107				2
3	116	114	117	113	105	98	105	105	102	108	116	101		1300	108				3
4	105	102	105	103	91	102	91	92	96	102	95	103		1187	99				4
5	94	101	103	94	97	81	76	73	74	72	58	63		986	82				5
6	83	72	69	70	81	66	66	63	65	69	65	72		941	70				6
7	78	78	93	77	58	42	45	50	56	63	64	62		766	64				7
8	55	46	55	54	54	65	65	74	66	56	55	42		687	57				8
9	38	41	57	47	62	71	79	66	77	70	66	67		741	62				9
10	65	66	77	76	76	89	84	76	73	73	65	71		891	74				10
11	73	77	75	73	72	75	77	71	82	70	80	75		900	75				11
12	74	82	73	87	86	72	79	78	81	81	86	89		968	81				12
13	86	95	85	85	81	86	82	79	84	88	89	78		1018	85				13
14	80	89	83	91	90	89	89	89	74	56	49	49		928	77				14
15	46	57	65	68	67	69	60	61	47	50	52	67		709	59				15
16	59	67	68	70	70	66	59	63	69	63	62	76		792	66				16
17	68	81	70	84	70	80	76	70	79	77	72	74		901	75				17
18	80	77	80	72	67	82	78	87	86	84	77	76		946	79				18
19	79	77				74	86	96	72	76	68	72		(700)	(77)[9]				19
20	52	44	62	59	64	69	69	64	72	79	80	73		787	66				20
21	70	63	54	63	68	69	79	80	71	79	76	69		841	70				21
22	69	61	67	65	74	77	83	69	80	76	80	73		874	73				22
23	71	79	71	75	81	79	87	85	81	82	82	76		949	79				23
24	75	72	70	79	81	85	78	80	86	82	80	74		942	78				24
25	66	75	74	79	86	85	81	79	79	84	92	84		964	80				25
26	83	81	77	80	88	86	101	96	88	96	84	79		1039	87				26
27	76	82	90	87	83	89	90	93	95	89	90	78		1042	87				27
28	87	90	89	81	87	86	85	88	87	86	79	78		1023	85				28
29																			29
30																			30
31																			31
Sum	2075	2107	2146	2145	2154	2167	2186	2153	2172	2147	2113	2061		25626	2135	79.1	(27	days)	
Mean	76.9	78.0	79.5	79.4	79.8	80.3	81.0	79.7	80.4	79.5	78.3	76.3		949.1	2212	79.0	(28	days)	
														79.1					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 3

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Tahle--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	79	88	81	83	75	77	83	77	81	78	81	82	965	80			1
2		74	78	79	75		78	78	80	70	83		(695)	(77)	9		2
3			78	80		86	85	82	80	88	94	81	(754)	(84)	9		3
4	82	83	90	91	94	83	89	89	93	100	86	87	1067	89			4
5	89	84	87	86	89	95	85	92	95	86	91	90	1069	89			5
6	97	87	91	99	96	97	99	104	91	91	90	91	1133	94			6
7	83-	84	94	91	94	87	102	102	101	96	90	86	1110	92			7
8	94	87	88	92	100	97	92	93	96	97	96	90	1122	94			8
9	92	99	93	84	84	90	83	96	96	84	91	79	1071	89			9
10	78	72	85	78	74	79	77	73	74	85	77	84	936	78			10
11	78	82	82	89	89	84	81	85	78	85	87	79	999	83			11
12	86	89	84	91									(350)	(88)	4		12
13						82	89	92	89	87	85	84	(608)	(87)	7		13
14	92	89	89	88	90	94	94	91	93	81	101	86	1088	91			14
15	85	87	98	96	94	90	90	88	94	92	92	93	1099	92			15
16	92	94	93	92	92	87	97	94	88	91	89	89	1098	92			16
17						94	101	91	96	92	94	87	(655)	(94)	7		17
18	90	90	98	102	101	92	98	102	101	91	100	88	1153	96			18
19	91	85	97	95	94	105	91	93	106	85	93	84	1119	93			19
20	93	94	95	95	101	96	91	100	102	93	94	91	1145	95			20
21	80	93	84	90	88	90	86	98	87	90	93	90	1069	89			21
22	88	91	92	97	92	104	95	87	88	93	90	84	1101	92			22
23	91	88	90	89	90	96	101	94	91	94	98	81	1103	92			23
24	82	81	89	81	91	91	86	81	90	89	89	89	1139	87			24
25	86	88	92	88	96	88	105	85	93	90	88	80	1079	90			25
26	89	88	94	94	90	83	98	89	84	91	90	82	1072	89			26
27	101	96	93	93	94	87	87	80	83	82	90	90	1076	90			27
28	86	63	50	74	73	72	81	73	77	55	60	56	820	68			28
29	67	73	77	77	79	78	79	70	75	76	68	73	892	74			29
30	71	82	76	69	76	71	74	79	75	66	76	77	892	74			30
31	86	84	93	79	78	86	86	69	76	76	80	84	967	81			31
Sum	2242	2232	2281	2292	2314	2299	2330	2284	2308	2237	2280	2185	27284	2272	87.4	(26 days)	
Mean	86.2	85.8	87.7	88.2	89.0	88.4	89.6	87.8	88.8	86.0	87.7	84.0	1049.2	2702	87.2	(31 days)	
													87.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 4

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Tahle--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	77	86	83	79	84	80	85	79	84	83	78	78	976	81		1
2	86	86	91	85	80	82	87	84	86	82	84	78	1011	84		2
3	95	98	97	82	81	89	89	80	85	79	93	90	1058	88		3
4	83	84	89	95	104	91	95	87	89	85	98	91	1091	91		4
5	80	91	88	95	89	88	91	91	95	91	92	96	1087	91		5
6	99	91	93	98	93	94	94	101	103	102	91	92	1151	96		6
7	93	92	96	98	99	96	107	94	99	84	95	93	1146	96		7
8	93	96	92	100	96	93	100	91	86	92	81	97	1117	93		8
9	94	89	97	90	91	98	91	92	90	86	88	91	1097	91		9
10	95	96	95	87	93	91	94	100	93	95	89	86	1114	93		10
11	95	86	89	87	87	93	94	97	94	94	84	86	1086	90		11
12	87	94	88	87	82	90	84	90	88	87	85	71	1033	86		12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20
21																21
22																22
23																23
24																24
25																25
26																26
27																27
28	76	85	85	86	80	82	95	92	95	83	91	87	1037	86		28
29	92	84	93	94	94	94	82	98	89	89	80	86	1075	90		29
30	79	90	101	94	101	91	101	93	91	98	92	87	1118	93		30
31																31
Sum	1324	1348	1377	1357	1354	1352	1389	1369	1367	1330	1321	1309	16197	1349		
Mean	88.3	89.8	91.8	90.5	90.3	90.2	92.6	91.3	91.1	88.7	88.1	87.3	1080.0	89.9	(15)	
													90.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 5

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	99	95	86	92	96	90	92	89	89	97	90	86	1101	92			1
2	91	83	81	97	94	91	87	92	92	93	92	91	1084	90			2
3	80	89	102	96	94	96	98	98	90	98	82	91	1114	93			3
4	88	88	90	93	98	102	89	97	103	84	96	87	1115	93			4
5	85	94	92	95	94	87	87	92	[——	——]	88	90	$(904)^{10}$	$(90)^{10}$			5
6	87	86	87	72	76	78	78	83	79	67	58	59	910	76			6
7	64	72	76	66	77	68	76	77	73	67	67	55	838	70			7
8	60	64	63	65	62	78	70	71	68	66	61	59	787	66			8
9	64	66	80	81	76	80	73	83	76	74	68	70	891	74			9
10	76	73	72	73	76	82	82	80	77	76	72	69	908	76			10
11	71	74	71	72	73	69	76	83	83	81	75	75	903	75			11
12	71	72	76	82	88	77	84	72	82	86	70	81	941	78			12
13	81	72	80	78	75	76	92	85	80	78	83	79	959	80			13
14	78	79	81	80	82	78	84	86	84	88	84	82	986	82			14
15	80	85	89	82	84	89	81	82	84	90	78	78	1002	84			15
16	81	84	83	79	87	81	87	84	89	89	91	81	1016	85			16
17	77	83	89	90	80	85	80	88	86	83	80	80	1001	83			17
18	76	85	68	80	75	84	77	92	87	86	91	84	985	82			18
19	87	76	85	86	84	87	87	91	92	92	82	78	1027	86			19
20	87	79	89	86	87	92	86	86	91	90	88	88	1049	87			20
21	81	86	86	81	86	92	88	94	82	87	85	90	1038	86			21
22	85	82	89	84	84	90	87	78	84	87	80	89	1019	85			22
23	85	88	87	91	77	94	100	89	91	76	78	86	1042	87			23
24	87	80	83	91	80	97	92	92	87	89	87	87	1052	88			24
25	86	83	85	90	86	95	80	83	88	84	86	81	1027	86			25
26	78	86	96	97	92	86	98	98	102	86	84	89	1092	91			26
27	80	85	90	97	93	89	93	90	90	85	83	94	1069	89			27
28	93	85	94	83	96	96	90	95	93	91	81	90	1087	91			28
29	94	93	87	94	97	90	98	89	95	94	108	91	1130	94			29
30	91	87	90	85	92	94	95	91	94	85	91	87	1082	90			30
31	87	96	100	91	88	91	91	93	95	94	97	89	1112	93			31
Sum	2445	2456	2535	2534	2535	2597	2591	2611	2606	2543	2468	2446	30367	2532	84.4	(30)	
Mean	81.5	81.9	84.3	84.5	84.5	86.6	86.4	87.0	86.9	84.8	82.3	81.5	1012.2	2622	84.6	(31)	
													84.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 6

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	94	92	89	97	91	87	99	100	100	95	95	85	1124	94		1
2	94	92	90	91	99	84	91	97	95	90	90	88	1101	92		2
3	89	95	86	89	93	91	93	103	94	97	94	96	1120	93		3
4	99	102	87	95	98	94	89	97	88	93	89	84	1115	93		4
5	99	93	95	94	93	79	91	92	87	86	97	89	1095	91		5
6	83	89	87	86	83	93	94	94	94	93	90	89	1075	90		6
7	83	71	80	78	81	83	83	82	89	91	85	85	991	83		7
8	84	79	82	82	79	95	96	84	86	78	78	81	1004	84		8
9	77	84	75	89	77	89	93	89	81	92	82	80	1008	84		9
10	81	91	79	90	85	84	85	85	85	80	82	83	1010	84		10
11	82	87	82	87	81	88	81	85	92	92	86	90	1033	86		11
12	89	82	77	85	84	84	93	83	92	87	82	80	1018	85		12
13	86	81	89	89	93	94	91	87	90	95	88	82	1065	89		13
14	87	92	91	94	91	89	88	88	91	88	90	86	1075	90		14
15	75	76	86	88	90	88	90	94	93	92	89	83	1044	87		15
16	90	94	84	95	91	94	88	89	96	99	95	92	1107	92		16
17	90	91	96	99	93	95	97	105	102	96	92	91	1147	96		17
18	104	92	91	93	90	101	99	89	98	90	91	96	1134	94		18
19	85	94	89	93	83	96	86	89	91	92	84	91	1073	89		19
20	88	86	85	88	87	88	83	85	88	86	90	90	1044	87		20
21	78	75	76	81	82	87	82	83	86	90	74	74	968	81		21
22	86	85	96	93	83	81	87	85	78	79	83	78	1014	84		22
23	77	83	83	90	80	80	84	89	88	94	92	87	1027	86		23
24	90	88	89	89	88	73	94	85	84	85	85	84	1034	86		24
25	83	85	84	86	91	89	85	84	92	91	94	89	1053	88		25
26	87	90	84	91	93	89	89	89	92	91	85	84	1064	89		26
27	89	92	87	92	97	95	93	87	92	89	83	69	1065	89		27
28	84	81	87	95	86	84	84	83	89	77	79	79	1008	84		28
29	73	90	87	91	88	89	87	82	86	83	85	90	1031	86		29
30	93	80	92	93	94	86	80	99	84	85	88	85	1059	88		30
31																31
Sum	2599	2612	2585	2703	2644	2649	2675	2683	2703	2676	2617	2560	31706	88.1	(30 days)	
Mean	86.6	87.1	86.2	90.1	88.1	88.3	89.2	89.4	90.1	89.2	87.2	85.3	1056.8	88.1		

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 7

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	88	97	100	93	93	103	92	99	102	87	96	86	1136	95		1
2	96	94	93	95	100	104	98	96	98	99	93	88	1154	96		2
3	99	86	96	90	93	103	95	95	93	87	90	83	1110	92		3
4	97	97	88	92	92	90	87	93	92	98	98	94	1118	93		4
5	90	97	98	85	92	93	94	94	100	94	87	91	1115	93		5
6	95	100	94	95	90	95	92	88	90	92	82	96	1109	92		6
7	95	101	92	90	89	94	89	89	94	96	87	87	1103	92		7
8	97	98	93	90	90	97	89	94	96	85	76	87	1092	91		8
9	90	87	90	100	91	88	90	100	86	86	86	85	1079	90		9
10	82	90	92	92	94	97	86	91	102	93	95	96	1110	92		10
11	88	100	95	96	96	93	86	91	102	88	86	94	1115	93		11
12	89	91	96	100	101	92	92	104	108	95	91	95	1154	96		12
13	88	94	96	97	98	96	98	103	102	110	98	103	1183	99		13
14	91	94	93	97	96	106	102	114	102	108	92	82	1177	98		14
15	86	88	95	96	97	103	93	90	101	94	89	87	1119	93		15
16	92	97	99	92	94	90	90	94	99	100	88	94	1129	94		16
17	97	88	93	89	92	99	98	91	101	96	97	95	1136	95		17
18	95	96	87	95	87	98	93	97	90	84	93	96	1111	93		18
19	90	90	96	93	93	94	99	97	98	86	86	90	1112	93		19
20	87	95	94	96	91	93	89	93	95	95	95	87	1110	92		20
21	86	88	90	90	99	88	93	97	98	92	93	89	1103	92		21
22	92	88	88	83	98	96	93	87	92	84	91	87	1079	90		22
23	89	91	90	102	94	99	96	93	89	85	81	76	1085	90		23
24	86	75	95	91	84	87	87	90	88	82	83	84	1032	86		24
25	84	94	93	86	94	90	97	88	90	93	99	82	1090	91		25
26	94	93	89	95	94	106	98	94	86	83	71	61	1064	89		26
27	47	12	12	10	13	15	4	1	16	15	12	34	191	16		27
28	46	42	36	53	49	45	43	40	30	32	27	44	487	41		28
29	52	58	52	61	59	58	54	63	54	54	54	63	682	57		29
30	59	68	66	66	67	60	60	62	62	65	68	62	765	64		30
31	70	74	64	67	81	80	80	75	77	68	76	71	883	74		31
Sum	2637	2663	2655	2677	2701	2752	2657	2703	2733	2626	2560	2569	31933	2659		
Mean	85.1	85.9	85.6	86.4	87.1	88.8	85.7	87.2	88.1	84.7	82.6	82.9	1030.1	85.8	(31 days)	
													85.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 8

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	69	79	81	71	81	79	79	84	80	89	73	65	930	78			1
2																	2
3																	3
4																	4
5							86	91	93	90	91	80	(531)	(88)[6]			5
6	80	91	82	97	98	92	93	89	90	92	93	94	1091	91			6
7	89	91	85	94	100	95	88	83	93	86	92	84	1080	90			7
8	86	105	99	102	101	92	98	102	103	98	93	84	1163	97			8
9	92	87	95	104	98	102	91	92	91	96	85	89	1122	94			9
10	96	97	87	94	96	90	94	97	93	98	82	83	1107	92			10
11	91	93	94	93	91	90	88	93	95	94	86	83	1091	91			11
12	91	87	97	97	89	85	83	83	90	88	89	87	1066	89			12
13	82	85	80	91	94	92	97	94	86	93	90	89	1073	89			13
14	88	89	86	95	88	88	93	99	92	88	88	83	1077	90			14
15	86	90	86	87	92	89	82	96	88	88	78	80	1042	87			15
16	80	74	82	83	77	98	89	98	86	88	84	85	1024	85			16
17	91	85	84	86	95	97	94	91	101	92	88	81	1085	90			17
18	90	86	96	98	92	88	97	94	97	92	94	98	1122	94			18
19	90	103	97	95	101	94	96	91	96	108	90	105	1166	97			19
20	93	100	88	98	99	96	95	101	96				(866)	(96)[9]			20
21							98	92	105	95	108	102	(600)	(100)[6]			21
22	99	104	98	108	100	99	104	106	108	108	109	95	1238	103			22
23	100	93	107	103	103	100	105	105	110	100	96	101	1223	102			23
24	97	95	100	96	101	103	101	100	102	102	101	99	1197	100			24
25	96	98	91	94	99	102	84	100	100	91	87	94	1136	95			25
26	88	94	90	99	99	98	96	102	95	95	95	83	1134	94			26
27	92	94	94	97	98	100	96	97	102	107	89	96	1162	97			27
28	96	90	89	97	97	100	90	100	105	99	99	102	1164	97			28
29	92	96	102	107	106	110	107	103	106	102	100	101	1232	103			29
30	102	98	114	105	106	104	109	102	107	104	101	107	1259	105			30
31	107	96	100	98	93	90	99	97	102	104	103	100	1189	99			31
Sum	2270	2300	2316	2391	2395	2377	2353	2398	2418	2402	2285	2268	28173	2349	94.0	(25 days)	
Mean	90.8	92.0	92.6	95.6	95.8	95.0	94.1	95.9	96.7	96.1	91.4	90.7	1127.1	2633	94.0	(28 days)	
													93.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 9

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	94	86	92	89	90	104	107	104	92	103	98	95		1154	96			1
2	103	99	99	101	101	97	104	104	110	102	106	99		1225	102			2
3	102	100	101	98	108	101	107	94	98	102	107	102		1220	102			3
4	100	100	106	100	105	103	110	113	104	109	102	108		1260	105			4
5	102	104	110	102	106	105	109	107	106	105	104	102		1262	105			5
6	107	103	101	107	116	112	100	110	102	106	106	103		1273	106			6
7	104	99	103	99	105	101	99	108	102	109	99	102		1230	102			7
8	106	105	105	99	105	98	112	101	107	99	99	99		1235	103			8
9	99	102	92	104	107	102	109	114	94	100	103	97		1223	102			9
10	97	97	106	100	100	100	112	101	103	101	110	94		1221	122			10
11	101	102	103	102	99	107	110	116	107	98	103	97		1245	104			11
12	100	104	100	104	102	105	102	107	99	104	96	103		1226	102			12
13	99	102	106	99	102	105	104	105	112	99	103	102		1238	103			13
14	106	108	108	99	105	110	109	108	126	112	109	96		1296	108			14
15	109	107	96	105	99	105	96	106						(823)	(103)^{8}			15
16						103	104	105	107	104	109	109		(741)	(106)^{7}			16
17	104	89	97	93	102	101	99	100	108	104	95	96		1188	99			17
18	99	99	98	103	98	85	94	86	88	89	82	86		1107	92			18
19	81	82	87	83	93	86	86	86	77	80	71	62		974	81			19
20	71	73	70	79	88	81	88	89	79	84	80	80		962	80			20
21	71	84	86	87	84	75	84	91	79	77	78	69		965	80			21
22	82	83	89	82	75	64	64	57	50	47	56	58		807	67			22
23	49	53	64	76	66	69	70	70	66	64	75	62		784	65			23
24	80	86	83	84	77	83	78	71	78	72	80	80		952	79			24
25	82	92	83	87	86	83	83	83	88	93	83	84		1027	86			25
26	94	87	94	96	87	95	89	84	77	86	91	86		1066	89			26
27	90	88	108	101	95	90	92	91	94	91	85	83		1108	92			27
28	82	82	85	84	92	82	99	85	95	93	100	90		1069	89			28
29	97	97	103	100	92	91	99	102	90	92	98	95		1156	96			29
30	98	96	99	95	97	105	101	97	105	98	94	86		1171	98			30
31																		31
Sum	2600	2602	2678	2653	2683	2640	2720	2684	2636	2619	2613	2516		31644	2635	94.1	(28 days)	
Mean	92.9	929	95.6	947	95.8	94.3	97.1	95.8	94.1	935	93.3	89.9		1129.9	2844	94.8	(30 days)	
														94.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 10

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	94	95	99	100	100	91	96	95	95	103	91	103		1162	97			1
2	95	91	109	113	107	102	112	106	105	106	101	100		1247	104			2
3	101	96	103	110	107	104	91	96	105	[	]	104		(1017)^{10}	(102)^{10}			3
4	91	98	100	103	105	96	108	106	97	104	95	104		1207	101			4
5	109	100	102	100	102	109	95	100	102	100	95	93		1207	101			5
6	92	104	101	91	[									(388)^{4}	(97)^{4}			6
7					]	105	110	107	100	101	108	113		(744)^{7}	(106)^{7}			7
8	104	104	107	102	106	101	102	101	101	101	105	105		1239	103			8
9	102	106	103	95	113	99	104	114	116	110	107	100		1269	106			9
10	105	100	98	108	107	104	107	102	104	109	100	104		1248	104			10
11	96	101	101	104	101	101	104	100	102	107	103	105		1225	102			11
12	96	100	103	114	100	98	100	112	97	102	103	100		1225	102			12
13	103	97	97	99	101	99	100	101	107	102	103	101		1210	101			13
14	99	99	98	92	104	102	108	106	104	103	93	95		1203	100			14
15	92	94	89	97	93	96	94	95	102	88	99	90		1129	94			15
16	91	94	91	93	96	94	88	95	93	96	92	95		1118	93			16
17	106	101	96	101	94	99	104	106	97	93	99	95		1191	99			17
18	90	97	93	110	109	104	104	100	104	104	96	106		1217	101			18
19	98	87	100	105	106	98	101	97	98	100	117	93		1200	100			19
20	92	94	94	98	101	97	85	96	98	87	90	90		1122	94			20
21	87	88	90	90	93	85	94	91	88	95	99	92		1092	91			21
22	106	99	99	93	92	103	92	97	106	91	91	99		1168	97			22
23	103	99	105	96	97	88	89	89	91	93	96	94		1140	95			23
24	104	94	92	102	[									(392)^{4}	(98)^{4}			24
25					]	102	98	103	106	103	98	92		(702)^{7}	(100)^{7}			25
26	106	103	101	104	107	102	95	106	111	102	101	107		1245	104			26
27	100	99	101	102	101	99	100	101	100	97	102	89		1191	99			27
28	104	100	95	100	101	105	100	96	103	105	102	100		1211	101			28
29	98	101	103	102	107	100	104	104	111	102	105	108		1245	104			29
30	101	104	98	108	99	97	103	94	108	97	99	101		1209	101			30
31	99	107	108	104	96	98	101	95	99	100	107	93		1207	101			31
Sum	2567	2558	2580	2633	2638	2567	2590	2605	2639	2597	2591	2562		31127	2595	99.8	(26)	
Mean	98.7	98.4	99.2	101.3	101.5	98.7	99.6	100.2	101.5	99.9	99.7	98.5		1197.2	3098	99.9	(31)	
														99.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 11

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	101	106	101	102	99	99	102	107	106	96	102	105	1226	102		1
2	101	101	114	103	104	107	110	100	102	96	97	104	1239	103		2
3	99	107	109	106	101	93	110	104	107	96	98	106	1236	103		3
4	98	105	108	105	108								(524)	(105)^{5}		4
5					103	91	95	95	100	98	93	92	(767)	(96)^{8}		5
6	87	104	91	97	106	101	100	103	100	98	96	93	1176	98		6
7	96	105	103	96	96	98	97	103	94	103	97	94	1182	98		7
8	96	100	94	98			104	107	98	108	100	96	(1001)	(100)^{10}		8
9	104	101	104	101	100	105	102	106	95	103	96	101	1218	102		9
10	94	95	100	95	90	95	94	105	103	100	103		(1074)	(98)^{11}		10
11						106	101	107	112	99	99	103	(727)	(104)^{7}		11
12	104	101	100	101	100	98	96	98	95	105	92	101	1191	99		12
13	103	105	105	105	101	103	108	108	109	104	106	103	1260	105		13
14	101	104	103	110	108	111	105	106	104	110	101	107	1270	106		14
15	108	98	106	93	100	98	105	98	80	86	87	84	1143	95		15
16	97	88	95	94	94	89	82	84	96	91	95	94	1099	92		16
17	96	99	102	101	92	89	94	77	92	93	104		(1039)	(94)^{11}		17
18											105		(105)	(105)^{1}		18
19						99	97	98	98	104	106		(602)	(100)^{6}		19
20									102	97	102	99	(400)	(100)^{4}		20
21	108	110	102	105	104	100	95	108	106	103	100		(1141)	(104)^{11}		21
22						102	97	103	112	99		97	(610)	(102)^{6}		22
23	101	110	100	98						104	100		(613)	(102)^{6}		23
24						86	92	95	96	97	90	87	(643)	(92)^{7}		24
25	89	96	96	86	100	88	101	97	92	98	92	97	1132	94		25
26	100	94	101	103	93	110	90	97	101	93	99	98	1179	98		26
27	102	101	101	102	106	103	96	97	98	94	97	100	1197	100		27
28	100	100	106	98	93	101	103	101	103	110	103	93	1211	101		28
29	105	96	103	99	102	96	102	95	106	102	104	105	1215	101		29
30	98	106	101	109	99	96	102	109	104				(924)	(103)^{9}		30
31																31
Sum	1597	1607	1638	1596	1603	1600	1609	1604	1588	1585	1562	1585	19174✓	1597	99.8✓ (16)	
Mean	99.8	100.4	102.4	99.8	100.2	100.0	100.6	100.2	99.2	99.1	97.6	99.1	1198.4	3002	100.1 (30)	
													99.9✓			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 12

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1946

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1						94	96	100	109	106	100	99	(704)	(101)^{7}		1
2	97	97	98	101	101	106	92	108	94	95	98	110	1197	100		2
3	110	107	105	102	99	111	104	116	111	110	107	106	1288	107		3
4	111	111	115	108	108	116	113	104	109	106	108	101	1310	109		4
5	96	100	107	107	107	109	112	107	104	101	91	95	1236	103		5
6	95	105	108	103	96	105	107	110	104	105	96	101	1235	103		6
7	102	96	98	111	97	111	104	103	104	103	100	103	1232	103		7
8	107	104	99	100	105	100	101	104	108	107	101	102	1238	103		8
9	106	97	96	103	102	100	96	106	100	106	96	100	1208	101		9
10	97	106	105	105	111	111	112	103	110	105	106	101	1272	106		10
11	108	108	110	101	102	114	101	99	96	102	98	105	1244	104		11
12	108	106	102	103	105	105	103	99	110	109	106	112	1268	106		12
13	103	104	110	102	105	98	103	108	113	113	98	102	1259	105		13
14	104	110	108	110	101	115	103	106	103	114	102	112	1288	107		14
15	105	112	109	113	107	104	108	103	116	113	116	111	1317	110		15
16	100	105	116	101	110	103	108	111	107	104	122	107	1294	108		16
17	101	120	107	113	110	104	103	111	102	106	108	103	1288	107		17
18	105	103	115	111	116	111	99	104	116	113	108	110	1311	109		18
19	103	109	112	103	105	95	110	102	107	109	108	102	1265	105		19
20	105	105	106	103	103	107	106	116	102	104	104	105	1266	106		20
21	108	115	113	104	106	106	107	102	110	103	100	100	1274	106		21
22	110	100	102	95	102	102	103	100	114				(928)	(103)^{9}		22
23						103	101	98	105	100	100	97	(704)	(101)^{7}		23
24	102	104	98	105	105	105	98	102	106	95	96	100	1216	101		24
25	100	100	103	111	106	104	107	103	103	99	103	102	1241	103		25
26	98	98	111	107	107	103	108	97	101	95	101	102	1228	102		26
27	101	102	101	104	99	92	100	111	105				(915)	(102)^{9}		27
28						108	104	107	101	109	96	103	(728)	(104)^{7}		28
29	101	108	108	100	103	97	93	94	109	103	104	99	1219	102		29
30	105	106	103	102	107	110	98	96	102	104	106	109	1248	102		30
31	110	107	102	110	101	100	103	115	108	107	115	108	1286	107		31
Sum	2687	2743	2764	2739	2725	2750	2699	2729	2755	2731	2698	2708	32728	2725	104.8✓ (26)	
Mean	103.3	105.5	106.3	105.3	104.8	105.8	103.8	105.0	106.0	105.0	103.8	104.2	1258.8	3236	104.4 (31)	
													104.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 13

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	113	102	106	108	106	98	108	105	106	102	101	113	1268	106			1
2	101	107	109	109	100	105	100	103	105	104	97	96	1236	103			2
3	109	104	104	111	106	113	112	108	107	100	105	102	1281	107			3
4	102	110	111	111	104	99	104	109	102	100	95	101	1248	104			4
5	94	100	104	97	101	94	105	99	109	97	101	103	1204	100			5
6	106	105	112	101	102	98	99	107	103				(933)	(104)^9			6
7					104	102	94	112	108	107	106	102	(835)	(104)^8			7
8	116	109	117	104	103	110	110	118	108	108	112	102	1317	110			8
9	104	114	111	121	106	110	111	107	107	102	108	109	1310	109			9
10	98	107	104	106	116	119	105	106	115	105	110	102	1293	108			10
11	104	110	101	105	112	111	121	105	111	112	110	111	1313	109			11
12	113	113	113	106	117	116	117	110	112	107	108	107	1339	112			12
13	103	114	106	115	104	108	109	121	119				(999)	(111)^9			13
14	–					105	103	116	109	112	108	116	(769)	(110)^7			14
15	110	117	114	120	113	110	112	123	114	103	126	101	1363	114			15
16	105	98	102	100	99	106	103	105	104	105	103	102	1232	103			16
17	100	105	102	103	99	102	102	105	101				(919)	(102)^9			17
18					103	106	95	106	106	103	104	101	(824)	(103)^8			18
19	100	97	106	110	108	102	103	103	112	107	102	101	1251	104			19
20	114	106	104	105	98	110	106	112	111	100	106	99	1271	106			20
21	102	101	110	111	104	106	101	101	101	102	108	108	1255	105			21
22	114	112	109	103	103	110	98	107	101	116	109	110	1292	108			22
23	110	108	113	97	115	118	107	111	105	105	106	104	1299	108			23
24	103	104	99	106	109	107	107	106	96	93	82	81	1193	99			24
25	92	89	96	103	100	95	89	94	100	98	90	93	1139	95			25
26	97	94	100	103	101	94	94	100	97	97	99	88	1164	97			26
27	100	103	98	107	100	93	101	96	93	95	99	95	1180	98			27
28	94	96	102	104	111	99	109	98	107	94	101	100	1215	101			28
29	102	102	98	102	108	111	105	102	96	105	103	101	1235	103			29
30	102	96	103	111	109	94	99	108	113	102	103	99	1239	103			30
31	108	99	110	109	105	109	103	107	110	115	111	102	1288	107			31
Sum	2607	2598	2644	2669	2654	2639	2630	2643	2642	2574	2595	2530	31425	2619	104.8	(25)	
Mean	104.3	103.9	105.8	106.8	106.2	105.6	105.2	105.7	105.6	103.0	103.8	101.2	1257.1	3253	104.9	(31)	
													104.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 14

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	109	114	109	109	107	114	102	104	98	111	101	99	1277	106			1
2	101	99	111	103	100	106	99	101	104	104	108	103	1239	103			2
3	103	113	113	112	105	116	110	111	97	106	99	98	1283	107			3
4	109	100	99	109	103	109	107	105	101	99	111	114	1266	106			4
5	108	110	110	109	112	104	107	109	116	111	113	107	1316	110			5
6	105	113	105	106	116	106	114	103	107	111	109	107	1302	108			6
7	100	107	104	106	108	103	108	102	106	100	101	100	1245	104			7
8	102	106	115	99	101	103	100	96	101	101	101	95	1220	102			8
9	101	111	101	108	95	98	99	101	101	95	99	107	1216	101			9
10	108	103	107	100	113	102	102	102	96	98	101	98	1230	102			10
11	103	101	99	99	106	96	99	92	96	97	107	106	1201	100			11
12	103	102	105	106	103	106	96	112	111	105	99	107	1255	105			12
13	101	101	112	107	96	109	100	104	98	106	108	102	1244	104			13
14	102	91	106	96	93	106	96	96	103	98	100	97	1184	99			14
15	106	103	104	103	109	104	91	104	99	113	98	99	1233	103			15
16	94	99	108	112	103	106						99	(721)	(103)^7			16
17	99	112	103	110	113	107	110	110	112	114	103	105	1298	108			17
18	106	106	98	117	108	120	103	101	109	105	108	102	1283	107			18
19	109	111	98	104	104	102	100	106	110	113	105	102	1264	105			19
20	109	110	102	110	113	108	116	106	114	110	112	105	1315	110			20
21	119	109	107	124	112	120	108	106	114	109	102	99	1329	111			21
22	111	105	116	111	106	111	118	111	113	97	110	110	1319	110			22
23	116	111	111	111	107	107	107	111	109	112	107	107	1316	110			23
24	106	99	104	101	103	105	95	101	101	105	102	104	1226	102			24
25	104	90	104	105	100	103	103	102	105	106	101	104	1227	102			25
26	94	110	104	99	97	109	102	100	95	101	109	91	1211	101			26
27	95	109	103	105	103	106	108	103	101	101	99	106	1239	103			27
28	88	103	103	113	110	105	111	103	106	103	115	102	1262	105			28
29																	29
30																	30
31																	31
Sum	2817	2849	2853	2882	2843	2886	2811	2802	2823	2831	2828	2776	34000	2834	✓ 105.0	(27)	
Mean	104.3	105.5	105.7	106.7	105.3	106.9	104.1	103.8	104.6	104.9	104.7	102.8	1259.3	2937	104.9	(28)	
													104.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 15

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	100	102	104	101	106	107	105	108	109	100	111	112	1265	105		1
2	109	112	107	108	117	105	101	96	110	103	102	96	1266	106		2
3	102	104	103	104	109	101	98	102	99	101	97	93	1213	101		3
4	82	109	94	97	107	98	108	106	112	103	90	93	1199	100		4
5	96	92	95	95	108	104	111	102	97	98	105	98	1201	100		5
6	97	106	111	97	96	102	108	109	107	105	97	108	1243	104		6
7	100	95	96	102	103	101	105	96	101	96	91	87	1173	98		7
8	86	100	98	110	102	101	92	105	95	98	93	94	1174	97		8
9	98	98	98	105	104	99	97	110	104	103	99	96	1211	101		9
10	104	102	112	106	104	105	103	102	101	90	99	106	1234	103		10
11	109	105	99	110	118	114	111	107	104	109	104	99	1289	107		11
12	97	89	92	104	88	102	100	99	102	83	87	77	1120	93		12
13	92	97	100	94	98	103	104	95	89	85	73	87	1117	93		13
14	82	85	82	80	91	85	76	85	86	83	87	87	1009	84		14
15	102	96	89	88	93	88	95	78	74	73	79	67	1022	85		15
16	62	67	66	68	68	71	73	75	76	70	72	69	837	70		16
17	80	79	77	76	77	87	93	83	84	82	83	79	980	82		17
18	76	84	81	82	89	89	84	93	95	97	89	83	1042	87		18
19	84	82	93	92	92	100	89	90	94	95	96	89	1096	91		19
20	84	91	82	84	97	96	99	100	94	97	94	88	1106	92		20
21	88	95	101	97	94	92	89	95	94	97	98	83	1123	94		21
22	89	86	85	82	83	87	98	98	104	99	101	106	1118	93		22
23	99	103	89	97	89	95	87	90	97	98	95	87	1126	94		23
24	88	87	94	92	84	83	84	81	98	96	97	96	1080	90		24
25	103	94	102	92	88	90	87	92	103	103	95	99	1148	96		25
26	95	94	102	97	101	98	96	105	98	107	98	89	1180	98		26
27	100	101	101	97	99	99	99	110	99	96	97	90	1188	99		27
28	100	97	108	107	105	102	105	106	106	94	99	91	1220	102		28
29	100	99	95	98	100	101	98	101	102	104	97	96	1191	100		29
30	91	106	101	105	103	92	97	98	102	96	96	93	1180	98		30
31	97	92	94	97	97	101	110	104	99	89	94	96	1170	98		31
Sum	2892	2949	2951	2964	3010	2998	3002	3021	3035	2950	2915	2834	35521	2961	95.5 (31 days)	
Mean	93.3	95.1	95.2	95.4	97.1	96.7	96.8	97.4	97.9	95.2	94.0	91.4	11455			
													95.5			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 16

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	92	84	103	99	97	95	95	90	99	92	88	83	1117	93		1
2	91	89	83	90	94	93	92	96	90	89	91	95	1093	91		2
3	88	91	101	96	96	86	99	92	98	76	93	86	1102	92		3
4	84	91	89	88	94	96	102	97	96	99	98	100	1134	94		4
5	99	91	97	105	101	92	106	100	101	98	93	101	1184	99		5
6	102	102	98	106	104	102	102	104	101	105	100	102	1228	102		6
7	98	88	91	95	101	102	104	111	101	100	101	104	1196	100		7
8	97	94	107	109	98	110	112	110	101	95	100	89	1222	102		8
9	91	76	80	90	85	85	87	96	95	84	84	78	1031	86		9
10	81	88	90	87	82	91	87	92	92	88	82	87	1047	87		10
11	89	87	88	83	95	87	96	96	90	96	90	95	1092	91		11
12	88	88	86	89	90	92	92	91	91	89	92	87	1075	90		12
13	82	84	91	102	92	91	98	95	102	91	88	78	1094	91		13
14	88	90	90	94	90	95	100	93	93	96	84	92	1105	92		14
15	92	93	100	98	97	96	94	92	105	95	87	99	1148	96		15
16	91	93	98	102	99	97	100	99	104	107	98	101	1189	99		16
17	98	94	105	107	98	96	91	85	68	70	60	59	1031	86		17
18	70	78	87	77	76	73	65	63	65	60	67	67	848	71		18
19	71	78	74	68	58	70	64	76	71	79	67	79	855	71		19
20	63	71	79	64	68	58	69	72	70	75	78	72	839	70		20
21	73	81	67	81	79	71	82	97	96	93	87	92	999	83		21
22	84	84	78	90	82	76	86	84	98	101	97	99	1059	88		22
23	86	86	88	95	90	98	96	103	96	96	91	85	1110	92		23
24	80	85	80	98	89	82	80	79	81	85	86	95	1020	85		24
25	105	106	107	95	90	99	91	101	97	97	99	97	1184	99		25
26	96	83	79	98	84	95	92	94	106	95	88	92	1102	92		26
27	86	85	91	97	91	90	84	87	90	80	86	82	1049	87		27
28	78	86	81	87	85	85	91	88	94	90	91	79	1035	86		28
29	84	74	84	77	87	74	81	84	82	88	82	84	981	82		29
30	90	88	75	76	87	79	76	85	90	100	95	94	1035	86		30
31													32204✓	2683		31
Sum	2617	2608	2667	2743	2679	2656	2714	2752	2763	2709	2643	2653	32204	89.4✓,	(30 days)	
Mean	87.2	86.9	88.9	91.4	89.3	88.5	90.5	91.7	92.1	90.3	88.1	88.4	1073.3	89.4✓		

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 17

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	91	86	82	86	89	83	74	76	86	85	76	66	980	82		1
2	72	76	79	74	84	78	75	78	80	77	76	77	926	77		2
3	80	68	78	85	81	83	77	84	84	78	78	87	963	80		3
4	87	77	78	86	77	86	83	78	85	87	88	85	997	83		4
5	92	83	89	95	83	83	88	87	89	82	85	92	1048	87		5
6	78	72	78	77	89	81	84	87	95	97	85	95	1018	85		6
7	97	93	91	94	100	92	98	98	99	101	99	93	1155	96		7
8	99	93	92	94	88	90	101	89	100	105	96	102	1149	96		8
9	90	106	88	97	96	97	91	97	105	102	96	93	1158	96		9
10	105	91	96	92	93	105	101	100	99	100	96	98	1176	98		10
11	95	95	94	95	96	91	100	103	99	101	95	103	1167	97		11
12	96	93	84	102	93	91	103	97	101	102	102	93	1157	96		12
13	96	96	99	107	94	90	102	92	106	102	105	94	1183	99		13
14	97	94	99	97	92	90	98	98	99	108	92	87	1151	96		14
15	84	84	91	100	95	93	97	88	92	93	88	90	1095	91		15
16	96	77	89	90	87	82	89	91	100	81	86	92	1060	88		16
17	85	86	88	92	85	85	91	82	91	82	91	85	1043	87		17
18	87	100	98	96	92	88	91	96	91	90	94	90	1113	93		18
19	91	92	93	95	88	96	90	96	95	92	87	89	1104	92		19
20	82	91	90	96	99	93	97	91	99	96	91	85	1110	92		20
21	83	95	89	90	84	89	97	94	93	87	94	87	1082	90		21
22	95	94	97	100	90	96	91	97	102	97	98	95	1152	96		22
23	91	80	91	83	88	86	87	88	89	87	88	93	1051	88		23
24	84	86	83	84	84	84	81	72	88	78	77	69	970	81		24
25	78	83	81	81	82	73	77	79	83	78	76	77	948	79		25
26	81	82	82	90	86	87	94	94	84	89	82	89	1040	87		26
27	75	75	83	74	81	73	78	82	75	82	76	76	930	78		27
28	73	84	85	79	75	89	86	89	85	85	93	72	995	83		28
29	66	74	78	73	68	69	72	69	72	71	72	69	853	71		29
30	69	71	76	65	67	64	70	75	76	76	68	68	845	70		30
31	59	68	76	72	60	67	76	71	67	67	63	73	819	68		31
Sum	2654	2645	2697	2741	2666	2654	2739	2718	2809	2758	2693	2664	32438	2702		
Mean	85.7	85.3	87.0	88.4	86.0	85.6	88.4	87.7	90.6	89.0	86.9	85.9	1046.5 87.2	87.2	(31 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 18

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	66	74	75	66	73	76	68	73	74	69	68	66	848	71		1
2	64	81	72	75	74	77	74	74	72	69	81	81	894	74		2
3	75	65	72	80	84	73	73	80	71	78	73	72	896	75		3
4	74	61	59	68	68	71	67	70	71	67	73	80	829	69		4
5	70	67	74	72	77	72	73	86	67	70	66	77	871	73		5
6	69	80	75	78	79	75	79	74	78	68	68	69	892	74		6
7	67	74	73	63	67	62	62	59	77	69	69	76	818	68		7
8	64	71	73	74	65	63	64	66	77	67	69	70	823	69		8
9	74	62	71	75	72	74	65	78	74	65	70	67	847	71		9
10	66	66	69	75	71	71	69	78	80	71	67	62	845	70		10
11	65	61	67	68	76	74	70	74	66	75	65	68	829	69		11
12	64	69	68	67	75	64	67	65	64	73	59	73	808	67		12
13	73	77	77	64	70	64	70	69	70	68	77	71	850	71		13
14	72	77	70	73	72	64	63	68	61	59	61	61	801	67		14
15	56	65	62	62	75	57	69	64	69	61	62	57	759	63		15
16	57	63	72	78	73	72	60	64	64	66	64	71	804	67		16
17	59	65	69	79	74	71	73	74	68	69	71	70	842	70		17
18	69	63	70	75	72	64	58	70	69	75	72	69	826	69		18
19	75	61	71	76	69	67	68	76	75	69	67	73	847	71		19
20	73	71	69	71	76	72	75	74	77	74	65	72	869	72		20
21	61	74	72	76	74	78	76	73	76	76	80	73	889	74		21
22	61	63	76	76	73	70	81	77	66	76	62	76	857	71		22
23	66	67	71	60	58	66	69	67	75	67	61	62	789	66		23
24	63	57	66	66	73	68	66	66	69	67	63	68	792	66		24
25	65	69	78	64	65	70	65	70	65	60	66	61	798	66		25
26	48	51	66	68	69	62	63	52	70	63	64	71	747	62		26
27	68	61	65	67	73	73	71	70	72	64	70	73	827	69		27
28	73	70	67	73	67	74	71	76	75	71	58	66	841	70		28
29	64	66	77	69	68	75	66	71	72	68	72	72	840	70		29
30	72	67	69	74	73	64	73	69	66	76	62	71	836	70		30
31																31
Sum	1993	2018	2115	2132	2155	2083	2068	2127	2130	2070	2025	2098	25014	2084		
Mean	66.4	67.3	70.5	71.1	71.8	69.4	68.9	70.9	71.0	69.0	67.5	69.9	833.7 69.4	69.5	(30 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 19

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	69	77	68	78	68	75	67	74	62	75	78	74	865	72		1
2	71	78	68	77	70	68	67	75	71	83	71	68	867	72		2
3	78	76	70	70	72	79	80	76	76	74	78	77	906	76		3
4	71	80	80	84	77	69	69	74	84	76	79	83	926	77		4
5	78	63	78	73	75	75	81	79	77	84	72	81	916	76		5
6	84	71	72	84	78	77	78	90	80	77	73	75	939	78		6
7	75	80	88	88	74	84	83	81	85	82	85	86	991	83		7
8	74	69	81	73	88	85	86	81	80	87	81	80	965	80		8
9	80	71	75	85	80	82	81	88	80	85	85	85	977	81		9
10	80	79	86	84	85	82	90	83	85	87	77	82	1000	83		10
11	84	85	76	93	88	76	85	93	90	91	95	89	1045	87		11
12	88	78	76	89	82	82	84	95	94	82	76	73	999	83		12
13	82	80	83	84	79	74	84	91	88	84	82	80	991	83		13
14	81	76	80	78	75	71	78	80	77	73	80	76	925	77		14
15	84	77	76	78	73	71	75	79	77	83	78	75	926	77		15
16	87	81	78	81	77	73	79	73	79	78	71	79	936	78		16
17	75	77	79	87	80	89	81	87	82	73	68	62	940	78		17
18	69	49	50	59	63	57	62	72	54	55	58	61	709	59		18
19	57	67	61	65	72	69	69	72	64	61	57	60	774	64		19
20	60	65	64	69	59	63	70	63	75	69	64	64	785	65		20
21	60	62	67	66	74	63	64	65	69	72	69	64	795	66		21
22	61	70	71	65	74	70	76	70	77	65	72	68	839	70		22
23	74	75	77	77	66	68	73	82	74	77	75	73	891	74		23
24	73	76	81	78	68	76	77	76	82	75	74	70	906	76		24
25	82	76	79	81	77	76	77	77	80	84	78	75	942	78		25
26	87	87	91	82	85	80	82	93	75	80	81	79	1002	84		26
27	84	86	90	87	89	82	87	94	77	93	89	82	1040	87		27
28	85	77	90	80	81	89	92	87	86	88	84	88	1027	86		28
29	80	91	87	93	88	85	82	94	89	93	85	88	1055	88		29
30	89	82	77	88	85	85	95	92	91	85	85	83	1037	86		30
31	78	79	88	82	83	84	84	90	99	95	83	82	1027	86		31
Sum	2380	2340	2387	2458	2385	2359	2438	2526	2459	2466	2383	2362	28943	2413		
Mean	76.8	75.5	77.0	79.3	76.9	76.1	78.6	81.5	79.3	79.5	76.9	76.2	933.6	77.9	(31 days)	
													77.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 20

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	86	91	88	83	79	89	96	101	93	86	93	76	1061	88			1
2	87	84	93	95	83	91	83	90	90	90	91	81	1058	88			2
3	86	69	80	88	84	89	86	80			81	80	(823)	(82)[10]			3
4	79	83	77	81			86	89	87	86	76	83	(827)	(83)[10]			4
5	82	83	93	85	86	84	85	92	83	91	80	79	1023	85			5
6	79	89	79	88	79	76				80	79	87	(736)	(82)[9]			6
7	79	89	72	77	72	84	74	80	80	83	76	80	946	79			7
8	81	81	79	75	80	77	75	80	82	81	76	83	950	79			8
9	81	83	71	79	84	77	70	78	89	92	91	80	975	81			9
10	80	69	75	83	78	80	80	74	80	80	90	80	949	79			10
11	70	87	75	80	83	76	80	82	87	78	82	77	957	80			11
12	79	91	89	82	78	86	80	83	87	83	79	76	993	83			12
13	78	75	83	83	84	76	84	93	89	76	82	81	984	82			13
14	81	75	81	75	74	79	73	84	82	80	78	71	933	78			14
15	78	83	85	78	79	82	65	53	59	59	57	62	840	70			15
16	57	55	58	66	62	69	58	63	70	50	51	54	713	59			16
17	55	55	52	58	54	59	70	77	74	70	60	56	740	62			17
18	55	61	69	73	66	58	62	77	64	60	59	52	756	63			18
19	53	59	58	52	64	73	77	78	74	86	71	73	818	68			19
20	65	62	74	73	83	72	75	78	73	71	68	61	855	71			20
21	65	66	64	74	72	75	67	72	77	69	70	66	837	70			21
22	66	65	79	65	64	74	67	69	65	63	59	73	809	67			22
23	60	64	66	64	58	58	55	66	67	76	62	67	763	64			23
24	62	72	71	69	61	61	67	77	70	68	64	63	805	67			24
25	67	67	65	73	67	65	70	72	83	76	69	64	838	70			25
26	76	70	75	81	84	76	82	83	90	79	79	76	951	79			26
27	83	77	86	84	80	74	77	80	78	76	83	69	947	79			27
28	80	83	80	79	80	81	69	78	83	87	80	77	957	80			28
29	75	79	96	83	73	78	85	77	78	76	75	80	955	80			29
30	83	76	86	83	72	74	84	80	83	75	81	70	942	79			30
31	78	71	76	79	76	80	83	77	77	79	76	70	922	77			31
Sum	2042	2073	2139	2131	2076	2108	2093	2194	2207	2140	2082	1997	25282	2107	75.2	(28)	
Mean	72.9	74.0	76.4	76.1	74.1	75.3	74.7	78.4	78.8	76.4	74.4	71.3	902.8	235.4	75.9	(31)	
													75.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 21

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	66	76	80	81	77	73	74	67	66	70	71	72	873	73			1
2	77	75	74	67	77	76	79	75	83	74	62	59	878	73			2
3	56	62	66	76	68	65	59	73	73	70	65	67	800	67			3
4	61	66	61	66	54	65	65	63	72	69	62	64	768	64			4
5	67	68	76	70	68	65	67	72	68	54	58	51	784	65			5
6	60	44	52	58	67	68	59	68	61	68	65	73	743	62			6
7	63	73	67	65	76	70	68	63	72	60	66	60	803	67			7
8	71	72	70	77	71	68	64	58	71	65	62	70	819	68			8
9	73	74	76	70	71	73	79	83	75	74	73	80	901	75			9
10	78	76	71	71	81	74	75	79	83	77	75	64	904	75			10
11	68	70	78	69									(285)	(71)^4			11
12						68	61	73	62	70	60	65	(473)	(68)^7			12
13	74	83	76	77	77	80	77	85	77	78	70	70	924	77			13
14	64	60	72	65	80	81	72	84	85	79	75	69	886	74			14
15	70	67	85	73	81	82	79	87	82	84	73	73	936	78			15
16	78	81	73	73	73	71	81	84	76	79	72	75	916	76			16
17	78	80	79	74	72	82	80	75	83	76	78	87	944	79			17
18	79	79	76	80	85	82	79	82	91	81	83	78	975	81			18
19	80	82	74	86	89	82	83	83	79	87	68	80	973	81			19
20	80	82	77	85									(324)	(81)^4			20
21						80	89	96	80	87	81	77	(590)	(84)^7			21
22	80	82	83	77	83	80	79	81	81	86	84	81	977	81			22
23	83	77	71	75	88	85	70	69	72	75	67	64	896	75			23
24	66	71	69	72	81	84	82	77	74	67	80	71	894	74			24
25	79	85	89	72	76	76	85	72	76	77	69	59	915	76			25
26	64	67	66	71	69	71	71	72	73	64	68	69	825	69			26
27	66	75	78	73	72	64	79	81	86	75	75	68	892	74			27
28	69	69	83	77	78	68	82	82	79	78	69	70	904	75			28
29	70	81	79	83	74	71	73	87	71	78	77	79	923	77			29
30	72	75	83	67	70	81	77	80	73	76	69	77	900	75			30
31													22953	1911	73.5	(26)	31
Sum	1844	1900	1929	1896	1958	1937	1938	1982	1982	1921	1836	1830	22953	2215	73.8	(30)	
Mean	70.9	73.1	74.2	72.9	75.3	74.5	74.5	76.2	76.2	73.9	70.6	70.4	8828				
													726				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 22

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	65	67	75	78	77	74	67	65	58	60	62	61	809	67			1
2	58	74	76	76	72	68	71	71	74	76	77	74	867	72			2
3	82	83	87	79	83	72	78	80	78	81	77	87	967	81			3
4	79	83	78	77	77	86	87	83	83	74	77	69	953	79			4
5	81	77	82	76	90	86	77	86	83	86	84	79	987	82			5
6	81	81	85	84	78	80	79	88	86	90	82	81	995	83			6
7	82	82	88	85	76	85	85	86	87	82	88	81	1007	84			7
8	78	87	85	87	87	83	84	84	79	84	83	88	1009	84			8
9	79	89	80	78	86	88	90	82	87	75	76	79	989	82			9
10	75	77	83	81	82	84	85	87	78	80	77	72	961	80			10
11	78	80	73	78	76	74	71	91	79	72	78	71	921	77			11
12	76	78	80	79									(313)	(78)^4			12
13					76	68	68	66	75	72	72	62	(559)	(70)^8			13
14	75	71	72	78	64	81	68	73	73	74	77	67	873	73			14
15	73	73	67	77	78	73	78	82	78	72	82	70	903	75			15
16	76	75	81	86	72	78	82	81	77	76	74	76	934	78			16
17	70	72	77	89	79	80	75	84	79				(705)	(78)^9			17
18						73	89	93	86	93	79	86	(599)	(86)^7			18
19	85	81	80	89	85	84	89	84	77	82	84	79	999	83			19
20	74	73	80	81	74	78	81	72	86	82	82	84	947	79			20
21	80	77	84	81	78	80	76	83	88	80	82	83	972	81			21
22	78	86	84	80	85	76	83	77	77	88	77	81	972	81			22
23	92	75	80	81	68	78	77	85	78	79	78	82	953	79			23
24	79	79	79	76	76	83	82	76	73	80	81	73	937	78			24
25	75	69	83	85	78	78	75	76	75	78	74	80	926	77			25
26	73	76	69	81	81	79	77	69	79	70	79	78	911	76			26
27	73	84	72	80	83	75	78	86	81	85	74	73	944	79			27
28	82	75	79	79	73	80	75	85	90	77	79	79	953	79			28
29	84	86	77	84	82	80	83	85	73	78	76	78	966	80			29
30	79	82	81	76	75	85	80	80	88	88	75	84	973	81			30
31	83	81	70	81	76	75	82	88	82	75	77	82	952	79			31
Sum	2099	2123	2130	2174	2112	2143	2140	2185	2147	2124	2112	2091	25580	2129	78.9	(27)	
Mean	77.7	78.6	78.9	80.5	78.1	79.4	79.3	80.9	79.5	78.7	78.2	77.4	947.2	2441	78.7	(31)	
													78.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 23

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	82	71	83	76	71	77	83	81	90	80	80	78	952	79			1
2	69	71	86	71	82	74	84	74	79	77	82	74	923	77			2
3	81	77	66	80	73	73	76	83	87	84	83	82	945	79			3
4	75	85	82	78	79	84	80	88	80	80	82	75	968	81			4
5	78	69	80	79	80	80	79	90	90	92	77	73	967	81			5
6	88	84	86	85	78	81	81	83	87	81	75	85	994	83			6
7	81	85	92	80	85	87	89	94	94	76	89	80	1032	86			7
8	90	89	80	83	89	86	82	85	89	85	81	83	1022	85			8
9	85	83	85	78	76	67	75	69	78	76	78	71	921	77			9
10	73	73	61	72	81	73	69	82	76	75	70	65	870	72			10
11	75	68	76	68	70	71	70	74	95	75	83	78	903	75			11
12	75	77	90	75	76	73	84	81	80	81	78	76	946	79			12
13	74	78	78	83	87	82	91	84	85	83	74	75	974	81			13
14	83	86	88	84	89	84	84	81	79	82	74	77	991	83			14
15	76	84	84	81	83	84	81	83	96	88	86	87	1013	84			15
16.	85	88	88	85	87	78	82	85	91	87	92	79	1027	86			16
17	81	81	93	92	79	78	88	88	89	82	87	84	1022	85			17
18	81	98	90	84	84	83	88		88	85	90	83	(954)	(87)			18
19	86	86	88	80	77	88	85	81	82	85	86	76	1000	83			19
20	85	88	84	85	86	78	71	93	86	84	87	86	1013	84			20
21	84	86	85	86	88	84	83	91	86	88	76	75	1012	84			21
22	88	93	81	100	99	80	90	83	84	93	93	91	1075	90			22
23	91	95	100	96	87	95	96	88	90	98	97	97	1130	94			23
24	86	88	101	88	89	80	94	98	93	94	89	79	1079	90			24
25	85	78	79	96	91	85	92	89	91	89	85	84	1044	87			25
26	75	80	79	90	76	81	90	87	98	91	92	83	1022	86			26
27	97	89	75	96	93	95	92	87	92	83	78	81	1058	88			27
28	75	80	80	83	79	86	84	83	90	87	74	79	980	82			28
29	80	79	76	90	84	82	78	84	88	78	81	74	974	81			29
30	85	77	76	83	78	77	82	73	80	84	77	79	951	79			30
31																	31
Sum	2368	2368	2402	2423	2392	2343	2415	2442	2525	2438	2386	2306	28808	2401	82.8	(29)	
Mean	81.7	81.7	82.8	83.6	82.5	80.8	83.3	84.2	87.1	84.1	82.3	79.5	9936	2488	82.9	(30)	
													82.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 24

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1947

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	83	83	80	84	86	83	78	87	87	80	78	72	981	82		1
2	84	81	80	76	77	75	88	79	75	81	70	77	943	79		2
3	92	89	81	81	82	92	86	91	87	86	82	77	1026	86		3
4	80	79	84	79	83	91	84	86	85	87	80	86	1004	84		4
5	82	87	89	89	83	84	78	79	78	85	83	81	998	83		5
6	77	85	84	86	80	86	88	89	88	83	83	81	1010	84		6
7	82	88	85	81	87	77	77	81	90	77	83	78	986	82		7
8	84	80	86	83	84	84	76	75	79	84	80	73	968	81		8
9	82	79	83	79	77	80	84	79	75	74	74	76	942	78		9
10	76	75	80	82	90	80	84	85	83	80	76	77	968	81		10
11	85	81	84	79	77	84	86	91	87	79	77	77	987	82		11
12	78	86	83	89	85	83	78	85	94	88	84	79	1012	84		12
13	76	83	85	90	86	86	89	89	91	80	79	92	1026	86		13
14	89	88	100	88	88	93	103	84	90	83	83	84	1073	89		14
15	85	89	91	92	88	92	94	97	87	86	90	86	1077	90		15
16	96	83	85	87	96	92	87	85	93	84	82	92	1062	88		16
17	85	90	97	94	94	98	93	93	97	102	85	86	1114	93		17
18	89	93	87	91	85	86	94	90	86	92	92	86	1071	89		18
19	89	89	95	91	95	90	92	88	86	99	105	88	1107	92		19
20	92	100	102	92	92	95	96	99	101	101	90	90	1150	96		20
21	94	95	97	102	96	101	97	90	97	92	96	91	1148	96		21
22	83	96	84	84	92	89	86	96	107	93	91	90	1091	91		22
23	94	92	91	92	82	95	87	93	85	89	88	91	1079	90		23
24	82	90	87	81	89	88	99	98	100	95	83	93	1085	90		24
25	79	79	89	93	90	87	92	89	92	90	96	88	1064	89		25
26	85	88	88	95	99	97	98	96	97	83	81	97	1104	92		26
27	93	94	98	89	96	92	102	95	100	93	97	91	1140	95		27
28	89	91	83	93	90	100	97	96	92	100	87	100	1118	93		28
29	87	91	84	89	98	95	93	95	100	92	95	86	1105	92		29
30	92	84	90	85	97	97	92	98	95	96	91	101	1118	93		30
31	84	94	98	84	97	100	91	95	95	90	85	99	1112	93		31
Sum	2648	2702	2730	2700	2741	2772	2769	2773	2799	2724	2646	2665	32669	2723		
Mean	85.4	87.2	88.1	87.1	88.4	89.4	89.3	89.5	90.3	87.9	85.4	86.0	10540	87.8	(31 days)	
													87.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 25

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	89	80	92	90	82	101	94	96	101	91	94	97		1107	92			1
2	90	89	91	90	92	90	97	91	92	91	86	79		1078	90			2
3	93	94	84	86	84	100	98	96	96	95	99	94		1119	93			3
4	94	95	93	88	99	94	91	95	96	81	87	96		1109	92			4
5	82	83	87	91	91	92	97	103	89	95	91	83		1084	90			5
6	82	84	87	91	96	90	86	91	93	93	96	88		1077	90			6
7	86	86	92	90	98	84	89	88	97	99	97	88		1094	91			7
8	98	92	91			93								(374)	(94)^{4}			8
9			94	100	90	96	86	90						(556)	(93)^{6}			9
10											89	85		(174)	(87)^{2}			10
11	104	93	93				85	86				88		(549)	(92)^{6}			11
12	96	97	98	97	96	95	92	91	88	86	93	94		1123	94			12
13	93	90	107	104	94	100	90	92	105	94	90	95		1154	96			13
14	93	108	100	94	96	92	106	98	99	95	95	97		1173	98			14
15	102	98	103	104	102	101	97	93	102	111	96	101		1210	101			15
16	97	97	86	99	96	91	100	99	102	98	100	94		1159	97			16
17	104	99	103	97	107	93	98	91	113	110	97	98		1210	101			17
18	108	95	97	101	98	96	91	95	107	96	92	97		1173	98			18
19	99	99	100	99	101	99	95	96	96	92	97	86		1159	97			19
20	95	92	97	96	94	97	93	98	90	97	94	94		1137	95			20
21	100	99	99	101	92	102	105	97	98	99	93	92		1177	98			21
22	91	96	91	92	94	92	100	103	97	91	94	99		1140	95			22
23	93	91	98	96	94	95	93	88	93	97	88	96		1122	94			23
24	90	92	95	89	96	94	91	91	96	93	108	102		1137	95			24
25	99	102	94	95	95	88	94	107	97	93	91	97		1152	96			25
26	99	95	92	102	92	98	100	101	100	104	95	96		1174	98			26
27	92	98	100	101	98	102	104	99	99	99	93	101		1186	99			27
28	93	100	98	97	94	92	105	103	109	98	91	93		1173	98			28
29	87	93	87	97	96	99	91	89	89	94	86	83		1091	91			29
30	93	93	96	97	93	96	98	94	96	98	95	93		1142	95			30
31	93	99	102	102	98	98	98	92	98	98	93	87		1158	96	✓		31
Sum	2533	2544	2569	2586	2568	2571	2593	2577	2638	2588	2531	2520		30818	2570	95.2	(27)	
Mean	93.8	94.2	95.1	95.8	95.1	95.2	96.0	95.4	97.7	95.9	93.7	93.3		1141.2	2936	94.7	(31)	
														95.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 26

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	90	95	91	89	86	95	88	103	92	92	98	89		1108	92			1
2	93	93	87	95	91	93	95	97	97	101	95	91		1128	94			2
3	91	100	104	96	105	106	101	103	92	91	82	89		1160	97			3
4	87	89	90	90	84	91	90	90	95	97	97	96		1096	91			4
5	89	93	98	90	91	97	90	91	96	95	92	90		1112	93			5
6	95						97	92	102	93	105	94		(678)	(97)^{7}			6
7	100	113	108	102	99	94	99	95	94	101	104	101		1210	101			7
8	96	110	98	102	97	99	100	101	98	102	106	102		1211	101			8
9	98	103	108	100	102	102	98	107	108	115	111	98		1250	104			9
10	95	97	97	106	91	106	95	100	98	96	98	91		1170	98			10
11	106	100	101	96	102	99	93	107	99	110	95	101		1209	101			11
12	97	100	97	103	102	108	102	104	102	97	101	98		1211	101			12
13	101	96	104	105	93	108	96	95	99	99	103	105		1204	100			13
14	97	102	101			98	97	94	98	104	102	97		(990)	(99)^{10}			14
15	103	100	106	104	100	104	97	94	96	102	104	104		1214	101			15
16	92	100	96	100	96	103	99	104	108	100	109	107		1214	101			16
17	98	96	101	99	97	103	101	103	103	97	92	97		1187	99			17
18	95	105	105	102	102	100	104	97	96	108	93	103		1210	101			18
19	102	100	99	109	104	108	89	100	105	107	107	102		1232	103			19
20	102	106	97	107	103	95	106	100	97	95	99	96		1203	100			20
21	104	94	107	110	98	93	95	101	99	101	103	92		1197	100			21
22	98	101	95	99	101	105	99	93	106	105	102	95		1199	100			22
23	101	103	97	103	100	104	113	99	99	98	107	99		1223	102			23
24	104	107	102	105	102	108	98	102	105	97	97	97		1224	102			24
25	94	108	100	98	107	108	106	96	100	100	94	98		1209	101			25
26	98	90	99	109	106	104	104	111	97	98	91	97		1204	100			26
27	99	100	94	105	97	92					92	99		(778)	(97)^{8}			27
28	102	103	96	100	98	103	102	99	99	97	101	100		1200	100			28
29	100	100	99	100	101	100	96	98	111	108	98	102		1213	101			29
30																		30
31																✓		31
Sum	2536	2602	2582	2619	2558	2636	2556	2590	2591	2609	2579	2540		30998	2584	99.4	(26)	
Mean	97.5	100.1	99.3	100.7	98.4	101.4	98.3	99.6	99.7	100.3	99.1	97.7		1192.1	2877	99.2	(29)	
														99.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 27

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	111	109	111	108	97	101	110	104	104	102	102	93	1252	104			1
2	102	99	99	101	102	103	99	93	100	99	95	101	1193	99			2
3	109	100	103	99	111	108	105	107	101	98	103	96	1240	103			3
4	[					]	97	98	98	103	104	96	(596)	(99)^{6}			4
5	109	97	96	103	102	101	106	104	105	98	106	101	1228	102			5
6	101	105	92	83	101	97	100	101	111	101	97	98	1187	99			6
7	103	101	98	119	101	103	100	113	103	107	105	105	1258	105			7
8	101	104	103	102	97	104	109	93	92	110	101	95	1211	101			8
9	100	105	97	104	102	102	103	106	101	113	103	107	1243	104			9
10	103	104	110	106	99	110	104	100	99	111	106	107	1259	105			10
11	94	105	99	116	99	97	113	98	110	112	107	102	1252	104			11
12	93	90	91	95	88	87	98	90	92	95	96	95	1110	92			12
13	98	109	103	94	96	98	101	100	93	93	90	102	1177	98			13
14	81	96	91	99	100	103	99	99	96	103	84	102	1153	96			14
15	93	94	92	85	76	76	84	68	83	81	80	69	981	82			15
16	82	86	75	77	85	78	81	78	75	80	77	86	960	80			16
17	91	97	98	88	85	[		]	88	[			(547)	(91)^{6}			17
18					]	93	97	98	42	101	95	87	(663)	(95)^{7}			18
19	93	88	95	90	91	92	89	101	92	93	91	86	1101	92			19
20	90	83	97	98	99	94	93	94	93	97	93	96	1127	94			20
21	95	87	96	90	84	92	88	99	97	96	88	88	1100	92			21
22	84	[							]	100	97	92	(373)	(93)^{4}			22
23	99	92	88	95	101	96	104	98	97	97	99	98	1164	97			23
24	99	90	101	94	91	99	97	99	102	97	94	94	1157	96			24
25	102	95	99	107	97	98	100	95	98	102	99	98	1190	99			25
26	110	104	90	95	[	]	105	94	[				(598)	(98)^{6}			26
27																	27
28																	28
29																	29
30																	30
31												]					31
Sum	2058	2039	2036	2065	2019	2039	2083	2040	2044	2085	2016	2019	24543	2044	97.3	(21)	
Mean	98.0	97.1	97.0	98.3	96.1	97.1	99.2	97.1	97.3	99.3	96.0	96.1	1168.6	2520	96.9	(26)	
													97.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 28

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	107	106	109	102	107	104	106	104	107	104	106	105	1267	106			1
2	105	107	104	98	103	105	104	103	104	102	107	100	1242	104			2
3	114	100	102	104	111	108	101	98	104	105	94	100	1241	103			3
4	101	109	100	106	97	95	102	101	101	89	99	96	1196	100			4
5	101	102	95	103	94	91	[						(586)	(98)^{6}			5
6								]	98	96	106	107	(407)	(102)^{4}			6
7	102	97	100	106	94	88	93	96	101	95	88	95	1155	96			7
8	98	88	102	97	94	92	96	97	95	108	99	92	1158	96			8
9	93	102	97	92	97	94	98	100	100	107	100	103	1183	99			9
10	96	101	105	108	107	100	101	106	101	104	99	110	1238	103			10
11	104	105	109	109	106	108	97	103	103	113	109	112	1278	106			11
12	102	109	98	101	102	106	104	107	106	109	99	104	1247	104			12
13	97	100	104	100	103	112	109	107	100	105	101	114	1252	104			13
14	101	102	113	111	119	102	107	98	102	107	105	97	1264	105			14
15	106	99	98	106	88	92	87	96	100	103	89	91	1155	96			15
16	103	105	99	102	97	101	97	102	97	98	101	98	1200	100			16
17	94	94	96	94	103	93	95	107	100	104	92	97	1169	97			17
18	99	95	94	109	106	101	91	99	92	93	99	91	1169	97			18
19	98	98	92	102	100	101	101	103	98	97	102	97	1189	99			19
20	95	105	109	104	108	99	93	95	93	107	105	100	1213	101			20
21	110	95	101	99	109	102	113	104	99	98	100	99	1229	102			21
22	99	107	109	116	103	107	107	103	100	100	102	90	1243	104			22
23	104	103	100	110	105	102	101	104	106	102	96	99	1232	103			23
24	99	101	102	97	101	105	98	98	101	100	99	92	1193	99			24
25	103	105	100	108	108	104	104	96	107	98	96	98	1227	102			25
26	102	93	103	98	102	101	101	107	95	104	102	102	1210	101			26
27	102	108	106	100	115	112	110	103	109	114	106	100	1285	107			27
28	95	98	107	116	105	98	106	102	106	103	104	108	1248	104			28
29	109	106	110	112	111	114	109	106	109	105	105	107	1303	109			29
30	111	100	110	112	109	103	111	106	113	98	108	104	1285	107			30
31																	31
Sum	2849	2838	2879	2919	2910	2849	2842	2851	2849	2872	2812	2801	34271	2854	101.9	(28)	
Mean	101.8	101.4	102.8	104.2	103.9	101.8	101.5	101.8	101.8	102.6	100.4	100.0	1224.0	3054	101.8	(30)	
													102.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 29

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^b	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	102	103	116	105	105	106	109	97	110	109	105	113	1280	107			1
2	106	104	103	102	105	108	101	98	114	104	110	99	1254	104			2
3	101	112	113	103	100	93	101	108	101	118	108	106	1264	105			3
4	100	94	96	99	100	101	101	102	103	105	98	90	1189	99			4
5	101	103	95	92	91	95	95	96	95	102	90	97	1152	96			5
6	92	106	102	106	105	111	94	96	96	93	94	101	1196	100			6
7	100	109	101	99	99	98	99	102	93	94	88	88	1170	98			7
8	89	96	100	111	108	96	100	102	90	90	89	102	1173	98			8
9	93	82	90	83	87	83	84	80	86	89	78	81	1016	85			9
10	79	76	87	74	77	88	76	81	80	75	73	72	938	78			10
11	77	79	83	80	76	83	84	85	77	77	85	87	973	81			11
12	82	83			96	85	79	83	82	78	76	75	(819)	(82)^{10}			12
13	67	69	77	77	81	76	73	80	74	84	84	88	930	78			13
14	87	85	86	82	76				97	90	87	73	(763)	(85)^9			14
15	76	75	72	72	86	82	80	83	88	80	88	86	968	81			15
16	84	91	86	93	82	77	81	90	82	74	71	75	986	82			16
17	75	73	78	74	81	75	77	78	80	82	80	78	931	78			17
18	78	81	81	80	83	79	86	82	86	90	84	87	997	83			18
19	83	85	89	89	89	85	86	90	92	89	92	85	1054	88			19
20	76	85	96	80	78	82	81	86	93	93	105	95	1050	88			20
21	92	97	96	88	87	94	95	100	91	85	92	91	1108	92			21
22	87	98	91	90	93	96	98	99	96	91	94	100	1133	94			22
23	96	97	99	97	102	85	92	106	91	96	90	90	1141	95			23
24	90	100	95	94	97	104	95	94	92	98	103	89	1151	96			24
25	94	101	99	102									(396)	(99)^4			25
26						100	105	104	95	100	108	104	(716)	(102)^7			26
27	94	102	107	101	103	109	110	102	106	106	100	100	1240	103			27
28	110	110	112	104	107	111	105	109	104	93	105	108	1278	106			28
29	104	108	104	116	112	102	107	106	108	100	103	95	1265	105			29
30	96	97	95	97	101	96	101	86	98	109	91	108	1175	98			30
31	95	104	98	104	94	100	97	86	102	101	98	102	1181	98			31
Sum	2443	2536	2562	2510	2529	2515	2508	2524	2528	2527	2498	2513	30193	2516	93.2	(27)	
Mean	90.5	93.9	94.9	93.0	93.7	93.1	92.9	93.5	93.6	93.6	92.5	93.1	1118.3	2884	92.9	(31)	
													93.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 30

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	93	99	105	102	104	107	111	110	110	96	102	99	1238	103		1
2	104	98	96	110	109	102	104	105	107	102	101	106	1244	104		2
3	99	101	104	115	97	111	110	99	108	111	101	102	1258	105		3
4	104	109	105	104	95	107	104	107	110	106	106	94	1251	104		4
5	98	110	108	102	115	115	109	114	105	106	103	105	1290	108		5
6	114	105	111	121	133	120	111	105	115	110	110	102	1357	113		6
7	98	110	99	111	108	103	105	103	108	114	111	108	1278	106		7
8	106	103	111	115	115	112	102	115	109	106	104	112	1310	109		8
9	108	114	116	105	109	105	108	104	107	113	103	114	1306	109		9
10	109	104	99	110	112	102	116	106	101	103	103	108	1273	106		10
11	114	100	108	108	117	102	104	107	105	91	94	99	1249	104		11
12	87	90	95	95	96	91	99	106	106	98	105	100	1168	97		12
13	101	111	104	107	109	107	100	114	107	99	97	96	1252	104		13
14	95	106	101	107	103	95	93	97	98	101	105	89	1190	99		14
15	97	106	102	96	100	104	96	98	102	98	105	111	1215	101		15
16	98	109	111	99	112	106	108	108	101	100	106	100	1258	105		16
17	105	102	109	109	105	102	107	110	102	107	112	97	1267	106		17
18	103	113	107	109	103	106	113	105	107	105	110	108	1289	107		18
19	107	103	114	105	107	117	114	108	105	107	95	98	1280	107		19
20	95	93	106	102	101	102	109	100	103	107	101	108	1227	102		20
21	103	101	100	102	105	112	100	114	106	111	113	103	1270	106		21
22	105	101	114	100	110	112	104	107	103	107	107	101	1271	106		22
23	109	112	107	100	107	106	107	99	111	101	111	101	1271	106		23
24	108	109	106	109	102	107	116	106	103	110	92	102	1270	106		24
25	103	107	106	110	106	102	109	108	107	101	104	100	1263	105		25
26	97	116	103	111	105	105	101	104	105	108	104	98	1257	105		26
27	106	108	101	102	110	102	99	104	99	101	106	112	1250	104		27
28	107	108	99	99	105	111	117	110	110	105	112	105	1288	107		28
29	104	108	106	109	107	112	113	105	110	110	109	107	1300	108		29
30	110	110	117	102	107	114	108	105	109	105	107	114	1308	109		30
31																31
Sum	3087	3166	3170	3176	3214	3199	3197	3183	3179	3139	3139	3099	37948	3161		
Mean	102.9	105.5	105.7	105.9	107.1	106.6	106.6	106.1	106.0	104.6	104.6	103.3	1264.9	105.4	(30 days)	
													105.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 31

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	109	120	110	112	113	101	110	117	121	113	119	98		1343	112			1
2	103	110	113	111	113	107	110	117	113	106	112	112		1327	111			2
3	116	116	121	113	110	111	112	116	114	113	109	108		1359	113			3
4	103	104	114	103	113	116	116	111	113	105	105	113		1316	110			4
5	111	104	109	115	108	103	103	104	109	108	99	102		1275	106			5
6	104	106	113	107	116	108	102	120	101	110	100	106		1293	108			6
7	112	105	106	104	100	107	101	106	95	98	102	103		1239	103			7
8	109	115	103	100	104	104	100	100	106	101	102	109		1253	104			8
9	111	111	104	118	116			99	106	96	94	98		(1053)	(105)^{10}			9
10	103	98	104	112	100	99	114	96	90	97	99	96		1208	101			10
11	81	95	92	94	98	92	95	92	95	97	92	105		1128	94			11
12	86	100	99	91	100	93	91	95	99	96	94	99		1143	95			12
13	91	104	97	100	110	99	98	95	101	96	99	99		1189	99			13
14	97	104	100	102	99	101	116	112	103	99	98	101		1232	103			14
15	100	111	105	107	96	102	101	107	100	98	96	103		1226	102			15
16	99	102	98	97	97	94	103	102	100	101	98	102		1193	99			16
17	100	105	103	96	97	102	105	103	100	97	105	97		1210	101			17
18	101	105	105	99	108	97	101	100	94	98	100	98		1206	100			18
19	102	108	102	104	105	104	100	108	104	103	99	104		1243	104			19
20	99	108	112	109	110	108	109	109	105	103	103	99		1274	106			20
21	104	116	105	109	111	109	110	111	108	106	102	108		1299	108			21
22	114	110	105	111	121	106	122	112	100	116	100	109		1326	110			22
23	98	118	109	108	110	116	101	102	101	103	105	106		1277	106			23
24	101	108	109	104	105	107	118	100	102	104	99	106		1263	105			24
25	98	103	108	104	112	113	108	106	106	107	104	111		1280	107			25
26	112	108	115	103	111	103	102	102	104	109	113	112		1294	108			26
27	106	104	109	108	101	96	102	109	100	109	104	102		1250	104			27
28	109	109	105	110	103	109	107	108	110	110	104	106		1290	108			28
29	109	109	105	108	107	119	106	110	108	108	106	106		1301	108			29
30	110	115	114	110	107	104	103	114	107	108	112	108		1312	109			30
31	112	113	113	113	122	117	105	110	110	108	104	108		1327	111			31
Sum	3099	3233	3203	3164	3207	3147	3171	3194	3119	3127	3084	3128		37876	3155	105.2	(30)	
Mean	103.3	107.8	106.8	105.5	106.9	1049	105.7	106.5	1040	1042	1028	1043		1262.7	3260	105.2	(31)	
														105.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 32

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	105	108	113	116	112	114	114	116	110	106	108	106		1328	111			1
2	102	106	109	102	114	113	104	102	109	105	103	95		1264	105			2
3	110	112	117	119	115	113	109	119	117	111	111	109		1362	114			3
4	106	113	117	118	109	113	120	120	107	108	108	102		1341	112			4
5	107	110	112	108	106	107	111	117	111	112	102	105		1308	109			5
6	111	114	118	111	118	109	114	118	115	111	110	102		1351	113			6
7	98	102	108	110	111	104	112	101	102	100	96	91		1235	103			7
8	96	110	113	109	110	111	114	107	105	117	99	106		1297	108			8
9	114	103	111	113	113	115	119	107	103	101	107	100		1306	109			9
10	100	110	104	102	109	102	99	101	107	96	87	94		1211	101			10
11	99	94	94	95	98	100	97	102						(779)	(97)^{8}			11
12						104	111	98	101	95	98	85		(692)	(99)^{7}			12
13	99	94	97	97	105	108	96	100	95	98	88	88		1165	97			13
14	93	91	103	96	104	99	106	111	104	104	85	94		1190	99			14
15	94	95	97	101	104	104	113	104	104	98	105	96		1215	101			15
16	101	107	103	104	108	105	107	114	106	109	104	103		1271	106			16
17	118	102	107	100	102	101	108	109	103	110	108	104		1272	106			17
18	101	102	109	108	107	111	112	111	107	107	107	106		1288	107			18
19	113	110	107	113	106	114	107	108	118	100	116	109		1321	110			19
20	111	116	107	101	109	108	106	120	100	103	100	102		1283	107			20
21	104	108	102	101	94	97	96	97	104	105	99	99		1206	100			21
22	104	94	100	103	102	94	102	97	103	104	106	100		1209	101			22
23	98	100	102	98	100	86	86	97	105	102	103	103		1180	98			23
24	94	98	98	104	100	101	104	108	95	100	105	108		1215	101			24
25	101	103	100	105	96	99	103	102	101	100	97	105		1212	101			25
26	106	104	106	99	107	112	114	109	104	108	102	100		1271	106			26
27	105	105	100	101	101	110	104	103	103	106	100	104		1242	104			27
28	104	104	109	102	105	108	109	108	110	106	104	100		1269	106			28
29	103	96	103	104	101	95	99	101	97	101	95	95		1190	99			29
30	92	95	107	101	104	97	102	89	95	99	101	92		1174	98			30
31	98	102	97	95	101	96	91	94	95	96	92	101		1158	96			31
Sum	2988	3014	3076	3041	3073	3046	3081	3090	3035	3023	2948	2919		36334	3028	104.4	(29)	
Mean	103.0	103.9	1059	104.9	106.0	105.0	106.2	106.6	1046	1042	101.6	100.6		1252.5	3224	104.0	(31)	
														104.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 33

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean					Day
1	100	96	93	105	102	94	107	93	108	99	89	92		1178	98					1
2	88	95	93						87	90	83	88		(624)	(89)^{7}					2
3	90	88	99	95	90	100	97	98	105	96	90	94		1142	95					3
4	90	96	87	94	101	90	88	95	99	105	103	93		1141	95					4
5	89	91	102	99	89	93	93	95	104	105	106	95		1161	97					5
6	98	95	101	111	97	102	108	105	103	107	98	104		1229	102					6
7	96	112	106	108	106	110	103	114	108	91	103	95		1252	104					7
8	104	102	102	104	107	103	110	100	109	102	99	94		1236	103					8
9	94	97	94	99	106	99	105	107	99	102	93	94		1189	99					9
10	99	91	97	101	100	105	105	100	94	94	90	82		1158	96					10
11											89	97		(186)	(93)^{2}					11
12	93	92	91	100	88	89	90	94	100	100	95	91		1123	94					12
13	92	92	94	95	86	89	88	89	96	93	97	95		1106	92					13
14	100	87	91	95	94	93	95	96	102	92	94	89		1128	94					14
15	95	103	97	102	101	90	99	99	106	94	110	103		1199	100					15
16	97	111	110	97	107	98	101	95	103	104	101	96		1220	102					16
17	109	105	97	103	107	108	104	104	108	109	97	109		1260	105					17
18	103	104	104	103	102	93	108	108	117	108	99	103		1252	104					18
19	101	110	102	105	107	101	102	94	111	99	97	102		1231	103					19
20	93	104	102	102	99	98	90	102	97	106	104	99		1196	100					20
21	89	109	106	103	104	97	107	99	106	95	104	100		1219	102					21
22	97	108	98	101	106	109	102	101	119	109	102	98		1250	104					22
23	99	91	100	99	95	95	93	104	101	97	100	98		1172	98					23
24	98	90	95	101	107	109	105	91	100	106	98	95		1195	100					24
25	94	97	106	101	96	96	103	104	99	107	105	100		1208	101					25
26	103	85	96	98	101	99	96	98	103	101	106	106		1192	99					26
27	96	105	97	103	106	100	111	99	101	96	102	98		1214	101					27
28	100	103	101	100	114	103	108	110	105	99	105	105		1253	104					28
29	100	101	105	101	108	105	107	98	110	109	101	109		1254	104					29
30	103	95	107	115	113	109	114				97	93		(946)	(105)^{9}					30
31																				31
Sum	2619	2665	2673	2725	2726	2668	2725	2692	2813	2725	2688	2639		32358	2696	99.9		(27)		
Mean	97.0	98.7	99.0	100.9	101.0	98.8	100.9	99.7	104.2	100.9	99.6	97.7		1198.4	2983	99.4		(30)		
														99.9						

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 34

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean					Day
1	81	95	102	99	104	95	100	97	92	87	90	83		1125	94					1
2	86	101	105	98	104	100	93	100	88	93	90	85		1143	95					2
3	84	91	97	106	95	96	92	95	99	88	101	95		1139	95					3
4	95	102	103	95	100	98	102	109	103	92	102	104		1205	100					4
5	102	105	108	104	105	111	108	105	111	110	100	98		1267	106					5
6	99	100	103	110	112	106	107	104	111	104	106	102		1264	105					6
7	104	95	104	106	96	96	109	100	105	97				(1012)	(101)^{10}					7
8														-	-					8
9														-	-					9
10														-	-					10
11						99	99	105	102	102	89	101		(697)	(100)^{7}					11
12	97	108	103	101	92	102	108	102	102	102	105	101		1223	102					12
13	106	97	99	99	101	115	107	104	105	108	97	101		1239	103					13
14	100	97	101	93	101	91	99	96	103	99	97	99		1176	98					14
15	107	106	100	99	95	107	92	100	101	106	104	104		1221	102					15
16	100	105	98	99	97	96	99	112	95	101	100	100		1202	100					16
17	99	99	103	102	95	105	101	104	99	104	94	87		1192	99					17
18	94	85	86	83	81	80	74	74	84	78	85	81		985	82					18
19	92	91	94	95	94	97	85	84	83	85	88	86		1074	90					19
20	84	89	96	95	91	98	95	102	99	92	90	94		1125	94					20
21	95	98	94	102	89	95	91	95	93	82	90	93		1117	93					21
22	96	90				87	87	90			94	88		(632)	(90)^{7}					22
23	105	90	99	92	95	93	91	98	96	88	102	88		1137	95					23
24	96	96	96	97	101	100	94	101	103	97	96	102		1179	98					24
25	104	103	111	105	102	102	104	100	106	106	100	99		1242	104					25
26	98	105	102	108	101	104	105	109	109	96	106	106		1249	104					26
27	110	117	109	111	108	100	103	107	110	103	106	102		1286	107					27
28	109	110	109	110	107	101	108	108	103	101	103	109		1278	106					28
29	94	108	110	112	105	102	111	118	110	109	111	101		1291	108					29
30	103	109	105	110	121	112	102	109	105	109	103	101		1289	107					30
31	97	102	117	106	104	109	109	104	100	117	100	96		1261	105					31
Sum	2437	2509	2550	2531	2500	2515	2480	2537	2510	2457	2466	2417		29909	2492	99.7	(25)			
Mean	97.5	100.4	102.0	101.2	100.0	100.6	99.2	101.5	100.4	98.3	98.6	96.7		1196.4	2783	99.4	(28)			
														99.7						

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 35

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	111	110	107	108	107	103	109	109	106	110	108	105		1293	108		1
2	103	108	105	100	98	104	110	102	104	101	103	90		1228	102		2
3	95	105	103	108	100	100	100	114	106	103	101	100		1235	103		3
4	114	118	106	104	110	113	105	103	99	114	113	103		1302	108		4
5	107	106	107	109	115	103	108	109	110					(974)	(108)^{9}		5
6											103	102		(205)	(102)^{2}		6
7	111	108	108	105	108	112	102	102	117	108	112	99		1292	108		7
8	107	107	112	107	111	101	113	113	116	119	109	108		1325	110		8
9	105	105	113	111	101	108	122	105	107	109	104	109		1299	108		9
10	108	112	108	116	107	126	108	113						(898)	(112)^{8}		10
11																	11
12																	12
13						104	106	107	103	104	100	91		(715)	(102)^{7}		13
14	95	102	97	105	102	98	103	97	101	99	98	90		1187	99		14
15	94	106	106	97	98	104	103	104	101	101	105	105		1224	102		15
16	110	103	106	106	110	105	107	109	103	112	101	103		1275	106		16
17	104	104	100	101	100	96	108	105	106	102	101	107		1234	103		17
18	100	106	104	101	100	108	107	103	94	102	100	105		1230	102		18
19	105	99	113	94	108	99	98	93	104	96	100	102		1211	101		19
20	105	104	98	108	106	101	94	102	104	102	105	94		1223	102		20
21	94	89	105	103	100	98	93	101	91	99	99	101		1173	98		21
22	97	101	94	101	101	97	94	93	99	100	101	104		1182	98		22
23	107	100	101	106	99	97	91	97	100	98	107	101		1204	100		23
24	104	102	102	98	103	99	93	93	100	99	102	94		1189	99		24
25	95	90	96	93	96	99	99	93	94	94	90	90		1129	94		25
26	95	94	95	100	97	97	96	88	96	95	100	92		1145	95		26
27	94	96	101	106	105	91	94	96	98	99	96	95		1161	97		27
28	98	107	99	106	91	92	93	95	96	101	100	104		1182	98		28
29	101	105	100	103	109	105	102	102	102	99	103	97		1228	102		29
30	106	106	107	102	107	98	98	106	96	106	97	95		1224	102		30
31																	31
Sum	2442	2475	2479	2473	2467	2425	2434	2425	2440	2468	2455	2393		29375	2445	101.9 (24)	
Mean	101.8	103.1	103.2	103.0	102.8	101.0	101.4	101.0	101.7	102.8	102.3	99.7		1223.8	2869	102.5 (28)	
														102.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 36

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1948

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	104	102	111	104	108	105	106	104	104	115	105	99		1267	106		1
2	102	102	105	103	108	106	110	95	106	108	103	103		1251	104		2
3	105	100	106	108	104	108	105	101	105	105	106	102		1250	104		3
4	104	107			108	103	110	108	112	104	108	109		(1073)	(107)^{10}		4
5	104	114	106	106	118	118	111	112	116	109	108	108		1330	111		5
6	114	105	111	115	117	111	110	116			115	114		(1128)	(113)^{10}		6
7	109	111	105	115	108	122	114	121	118	114	110	114		1361	113		7
8	111	114	107	111	115	112	114	112	99	103	106	112		1316	110		8
9	112	111	114	113	111	113	109	113	112	108	108	108		1332	111		9
10	114	108	105	106	109	111	108	111	113	113	104	104		1306	109		10
11	105	102	107	105	105	115	110	119	112	113	103	97		1293	108		11
12	108	106	106	105	104	104	111	111	105	104	112	99		1275	106		12
13	98	103	103	101	103	104	106	101	113	108	104	100		1244	104		13
14	109	101	101	93	92	96	92	106	93	102	97	103		1185	99		14
15	104	113	102	104	98	105	95	100	108	107	107	104		1247	104		15
16	98	96	106	94	98	90	109	108	98	109	106	99		1211	101		16
17	104	101	103	100	96	95	103	91	102	97	91	104		1187	99		17
18	94	98	94	96	97	99	105	100	95	99	109	102		1188	99		18
19	100	96	104	103	100	104	105	102	107	103	98	99		1221	102		19
20	101	91	103	99	100	101	97	103	104	99	97	96		1191	99		20
21	99	115	112	115	108	108	102	105	103	96	101	103		1267	106		21
22	104	97	102	102	104	105	103	98	96	102	106	105		1224	102		22
23	100	112	111	100	113	116	104	114	104	100	112	100		1286	107		23
24	96	108	106	108	103	110	102	102	99	105	98	100		1237	103		24
25	99	105	103	96	109	105	106	108	113	109	98	103		1254	104		25
26	101	111	109	109	104	108	103	107	103	104	101	97		1257	105		26
27	100	111	102	106	107	104	102	108	100	101	103	95		1239	103		27
28	103	99	102	111	113	106	102	119	106	98	100	95		1254	104		28
29	110	104	106	102	103	108	104	107	114	104	105	102		1269	106		29
30	108	103	104	107	111	125	99	106			110	91		(1064)	(106)^{10}		30
31	96	97	95	97	89	106	95	97	107	108	100	98		1185	99		31
Sum	2890	2928	2936	2912	2927	2979	2933	2975	2955	2943	2898	2851		35127	2928	104.6 (28)	
Mean	103.2	104.6	104.9	104.0	104.5	106.4	104.8	106.2	105.5	105.1	103.5	101.8		1254.5	3254	105.0 (31)	
														104.5			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 37

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	98	93	96	91	95	101	100	97	94	104	103	95	1167	97			1
2	100	95	102	99	101	96	104	94	101	99	98	100	1189	99			2
3	94	98	102	101	97	105	99	97	97	103	99	97	1189	99			3
4	102	100	104	97	109	107	102	101	101	99	102	96	1220	102			4
5	102	105	102	101	101	102	99	96	103	98	101	102	1212	101			5
6	105	105	108	101	104	99	98	108	107	97	106	97	1235	103			6
7	100	106	101	108	104	104	105	103	101	105			(1037)	(104)^{10}			7
8						116	102	112	109	104	108	105	(756)	(108)^{7}			8
9	116	105	110	104	102	109	105	112	99	106	111	106	1285	107			9
10	101	99	105	103	103	106	109	95	104	110	104	107	1246	104			10
11	104	103	111	108	103	100	98	103	104	102	100	99	1235	103			11
12	102	109	101	104	99	100	101	103	106	105			(1030)	(103)^{10}			12
13	106	103	103	100	100	98	106	101	100	96	97	104	1214	100			13
14	108	99	101	103	98	110	105	106	102	106	100	98	1236	103			14
15	110	106	109	110	108	107	107	112	110	111	105	99	1294	108			15
16	97	113	110	103	112	115	106	113	106	111	104	111	1301	108			16
17	106	112	114	107	107	102	110	103	96	102	101	101	1261	105			17
18	105	93	106	99	105	113	100	103	107	106	106	99	1242	104			18
19	102	103	110	103	110	112	107	104	110	109	99	108	1277	106			19
20	101	105	103	109	103	102	109	108	111	104	103	94	1252	104			20
21	97	94	105	108	100	104	103	107	112	108	105	99	1242	104			21
22	104	105	101	110	100	112	107	108	111	107	104	104	1273	106			22
23	100	105	105	106	105	102	110	105	112	113	110	106	1279	107			23
24	108	110	113	105	103	106	106	112	100	81	98	99	1241	103			24
25	83	59	63	77	72	82	70	71	85	89	92	85	928	77			25
26	94	92	95	98	104	107	105	101	96				(892)	(99)^{9}			26
27	87	87	102	99	102	110	110	104	107	102	99	93	1202	100			27
28	96	105	102	98	103	107	109	113	106	108	102	109	1258	105			28
29	107	104	103	103	108	105	112	111	105	103	100	100	1261	105			29
30	100	108	105	104	110	108	108	101	109	106	102	101	1262	105			30
31	110	111	106	112	106	114	110	98	110	115	98	108	1298	108			31
Sum	2749	2725	2801	2761	2767	2834	2809	2783	2809	2795	2749	2717	33299	2773	102.6	(27)	
Mean	101.8	100.9	103.7	102.3	102.5	105.0	104.0	103.1	104.0	103.6	101.8	100.6	1233.3	318.7	102.8	(31)	
													102.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 38

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	103	104	107	107	111	110	109	112	105	106	109	99	1282	107			1
2	109	113	104	112	99	106	108	104	110	108	107	111	1291	108			2
3	115	115	107	105	104	112	106	103	106	109	111	103	1296	108			3
4	114	106	115	113	115	117	113	107	105	120	110	111	1346	112			4
5	103	111	106	113	109	113	110	108	105	108	110		(1196)	(109)^{11}			5
6							104	105	108	102	111	108	(638)	(106)^{6}			6
7	106	111	102	108	90	91	103	111	102	101	100	97	1222	102			7
8	105	100	113	102	106	98	101	94	102	108	102	108	1239	103			8
9	106	115	103	103	110	110	103	100	100	105	105	100	1260	105			9
10	110	102	95	102	100	109	111	105	97	108	119	102	1260	105			10
11	104	102	110	106	113	110	109	104	102	104	102	104	1270	106			11
12	102	94	105	107	105	97	105	114	102	97	98	102	1228	102			12
13	96	91	108	100	110	100	102	94	104	101	99	94	1199	100			13
14	101	103	110	100	104	101	94	111	101	100	101	97	1223	102			14
15	97	106	101	108	108	99	105	109	107	108	101	110	1259	105			15
16	108	114	113		105	100	111	113	102	109	113	108	(1196)	(109)^{11}			16
17	109				98	103	118	111	101	108	100	106	(954)	(106)^{9}			17
18	106	105	108	103	111	103	102	105	110	103	107	97	1260	105			18
19	103	98	100	103	102	104	105				93	100	(908)	(101)^{9}			19
20	94	91	97	97	94	107	105	96	98	100	96		(1075)	(98)^{11}			20
21							93	88	100	93	100	99	(573)	(96)^{6}			21
22	104	99	101	103	101	112	94	97	97	95	100	91	1194	100			22
23	96	98	104	104	110	110	107	106	104	102	101	106	1248	104			23
24	104	101	102	106	113	106	104	101	100	101	102	97	1237	103			24
25	104	106	108	106	107	104	107	108	99	104	97	104	1254	104			25
26	106	102	104	117	101	107	112	106	107	106	105	102	1275	106			26
27	108	106	103	113	106	102	110	104	99	106	106	103	1266	106			27
28	104	106	108	110	107	105	100	99	106	107	103	99	1254	104			28
29																	29
30																	30
31																	31
Sum	2200	2185	2218	2235	2231	2209	2205	2194	2165	2199	2185	2137	26363	2197	104.6	(21)	
Mean	104.8	104.0	105.6	106.4	106.2	105.2	105.0	104.5	103.1	104.7	104.0	101.8	1255.3	2922	104.4	(28)	
													104.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 39

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	104	101	109	105	110	105	98	101	92		108	97	(1130)	(103)^{11}		1
2	107	113	106	113	100	102	102	102	104	106	101	103	1259	105		2
3	113	123	104	105	97	99	102	113	98	100	100	99	1253	104		3
4	106	103	101	100	97				101	104	98	101	(911)	(101)^9		4
5	105	111	102	112	100	104	101	105	96	103	99	103	1241	103		5
6	102	106	100	99	102	106	98	100	107	101	100	102	1223	102		6
7	104	102	96	110	105	105	108	106	95	103	95	99	1228	102		7
8	94	101	99	105	109	105	102	93	101	104	107	97	1217	101		8
9	104	100	108	96	98			107	99	93	99	104	(1008)	(101)^{10}		9
10	101	103	99	107	107	105	108	102	98	108	101	108	1247	104		10
11	101	107	108	101	95	100	104	102	106	102	103	106	1235	103		11
12	103	107	107	113	109	110	104	109	104	102	105	111	1284	107		12
13	97	91	112		108	101	109	95	100	93	100	92	(1098)	(100)^{11}		13
14	99	92	104	101	98	102	107	110	111	102	110	108	1244	104		14
15	105	102	108	102	99	106	95	98	98	95	92	102	1202	100		15
16	98	93	108	100	106	100	118	109	100	101	92	99	1224	102		16
17	111	105	106	109	110	94	98	106	99	108	97	100	1243	104		17
18	107	103	107				99	104	95	103	101	104	(923)	(103)^9		18
19	105	107	110	108	98	112	108	109	101	104	103	106	1271	106		19
20	104	117	110	109	114	117	113	106	108	107	113	106	1324	110		20
21	95	102	109	111	113	108	113	110	112	112	107	115	1307	109		21
22	112				110	113	110	113	111	116	111	109	(1005)	(112)^9		22
23		113	117	126	117	119	103	115	116	108	105	111	(1250)	(114)^{11}		23
24	108	116											(224)	(112)^2		24
25													–	–		25
26											116	107	(223)	(111)^2		26
27	105	105	116	106	115	109	115	119	116	114			(1120)	(112)^{10}		27
28						108	104	115	110	102	107	116	(762)	(109)^7		28
29	111	106	110	105	115	119	116	107	108	107	108	107	1319	110		29
30	106	103	105	105	115	107	112	109	105	107	108	108	1290	108		30
31	104	107	106	111		105				109	112	107	(861)	(108)^8		31
Sum	1864	1900	1891	1915	1892	1901	1909	1896	1851	1872	1841	1879	22611✓	1884	104.7✓ (18)	
Mean	103.6	105.6	105.1	106.4	105.1	105.6	106.1	105.3	102.8	104.0	102.3	104.4	12563	3170	105.7 (30)	
													104.7✓			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 40

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	103	105	110	115	112	110	110	107	102	110	108	95	1287	107		1
2	108	107	106	108	109	106	100	101	112	116	101	106	1280	107		2
3	98	106	105	101	103	106	118	108	111	111	112	103	1282	107		3
4	103	114	110	107	111	116	103	116	114	113	109	107	1323	110		4
5	105	106	104	107	111	116	105	104	102	108	107	99	1274	106		5
6	105	107	106	102	100	112	105	110	111	117	118	110	1303	109		6
7	95	108	115	113	111	114	120	105	116	90	103	109	1299	108		7
8	102	105	105	115	109	108	114	113	104	98	95	101	1269	106		8
9	103	101	94	101	105	106	103	103	106	104	105	98	1229	102		9
10	107	101	106	99	98	108	109	105	104	106	102	96	1241	103		10
11	99	107	99	100	97	92	89	91	92	104	94	92	1156	96		11
12	99	94	100	102	110	105	108	94	77	65	66	64	1084	90		12
13	69	72	73	81	79	80	81	82	82	76	81	80	936	78		13
14	84	75	91	82	84	89	78	84	91	78	81	83	1000	83		14
15	86	83	88	81	85	89	92	91	89	99	82	81	1046	87		15
16	89	95	88	94	83	89	95	83	95	91	87	87	1076	90		16
17	96	92	86	96	94	90	97	99	98	97	98	89	1132	94		17
18	95	99	98	102	96	93	96	103	102	103	99	102	1188	99		18
19	103	103	98	108	94	102	105	100	104	110	102	100	1229	102		19
20	98	100	104	98	97	110	104	95	105	112	104	103	1230	102		20
21	104	107	110	113	106	110	108	108	108	111	108	98	1291	108		21
22	113	104	106	108	116	109	101	100	104	97	90	95	1243	104		22
23	94	104	109	102	112	109	106	101	106	107	102	97	1249	104		23
24	101	113	115	107	103	107	111	106	110	100	103	96	1272	106		24
25	105	106	109	111	101	109	103	117	108	111	107	107	1294	108		25
26	116	111	115	106	109	105	107	107	113	114	111	103	1317	110		26
27	104	115	107	104	109	114	103	108	111	109	114	115	1313	109		27
28	111	111	106	102	103	110	106	104	112	115	105	117	1302	108		28
29	104	104	108	104	99	111	109	111	109	108	104	106	1277	106		29
30	102	109	106	114	114	103	106	114	108	114	104	108	1302	108		30
31																31
Sum	3001	3064	3077	3083	3060	3128	3092	3070	3106	3094	3002	2947	36724✓	3057	101.9✓ (30)	
Mean	100.0	102.1	102.6	102.8	102.0	104.3	103.1	102.3	103.5	103.1	100.1	98.2	1224.1	102.0		

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 41

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	103	107	100	101	100	105	111	106	116	116	117	106	1288	107			1
2	101	104	105	109	93	101	106	114	113	106	114	107	1273	106			2
3	101	104	106	112	111	112	101	110	105	122	108	104	1296	108			3
4	109	108	112	107	117	106	117	120	110	117	107	117	1347	112			4
5	108	116	117	107	115	119	115	109	106	112	106	112	1342	112			5
6	107	107	108	114	117	114	106	115	118	108	106	110	1330	111			6
7	112	109	110	110	109	104	105	108	113	110	107	102	1299	108			7
8	106	105	106	108	108	110	102	103	107	108	104	102	1269	106			8
9	95	108	105	110	109	109	100	101	100	110	101	104	1252	104			9
10	106	102	93	107	108	104	116	104	106	104	108	99	1257	105			10
11	100	103	100	104	102	110	97	95	106	101	102	102	1222	102			11
12	109	100	102	97	109	96	87	78	85	86	83	93	1125	94			12
13	90	91	84	89	86	93	94	85	85	88	91	90	1066	89			13
14	94	88	97	95	99	98	102	97	101	96	97	108	1172	98			14
15	104	103	98	104	95	100	99	103	105	94	100	98	1203	100			15
16	106	110	113	106	103	111	95	113	104	109	98	112	1280	107			16
17	105	106	115	112	113	110	110	102	102	106	100	104	1285	107			17
18	111	114	119	117	114	106	109	104	111	104	114	111	1334	111			18
19	114	114	114	120	111	112	116	110	112	105	109	110	1347	112			19
20	106	111	112	110	112	113	111	105	103	103	106	106	1298	108			20
21	115	113	112	111	116	119	114	109	107	105	113	102	1336	111			21
22	111	110	117	112	115	114	113	114	112	107	104	106	1335	111			22
23	118	102	111	108	111	102	117	113	120	104	104	113	1323	110			23
24	112	110	114	110	108	111	110	117	109	117	112	98	1328	111			24
25	103	108	113	112	115	118	108	118	111	109	110	106	1331	111			25
26	112	113	110						118		118	112	(683)	(114)^{6}			26
27	116	107	111	117	112	116	116	114	112	109	111	109	1350	112			27
28	104	106	108	117	109	107	110	102	114	108	118	112	1315	110			28
29	109	110	112	112	110	112	115	117	113				(1010)	(112)^{9}			29
30						109	119	113	107	113	116	118	(795)	(114)^{7}			30
31	102	106	107	115	114	122	115	120	114	112	104	109	1340	112			31
Sum	2968	2972	3009	3041	3031	3042	3002	2989	3007	2976	2954	2952	35943	2995	107.0	(28)	
Mean	106.0	106.1	107.5	108.6	108.2	108.6	107.2	106.8	107.4	106.3	105.5	105.4	1283.6	3335	107.6	(31)	
													107.0✓				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 42

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	108	106	105	113	115	113	114	107	110	115	111	114	1331	111			1
2	98	105	107	104	116	112	116	111	113	112	106	114	1314	110			2
3	106	106	112	114	111	110	113	115	117				(1004)	(112)^{9}			3
4											109	114	(223)	(111)^{2}			4
5	105	107	115	123	113	118	110	118	112	114	102	98	1335	111			5
6	105	107	115	108	112	112	106	112	116	112			(1105)	(110)^{10}			6
7						106	106	108	111	120	101	99	(751)	(107)^{7}			7
8	100	103	112	102	110	101	103	109	100	108	104	98	1250	104			8
9	107	107	114	107	104	109	99	109	108	107	107	112	1290	108			9
10	98	94	105	109	100	110	104	108	108	100	102	98	1236	103			10
11	101	107	105	104	109	107	101	111	107	110	114	105	1281	107			11
12	107	111			98	102	101	110	114	102		94	(939)	(104)^{9}			12
13				108	110	103	103	108	113	113		97	(855)	(107)^{8}			13
14	108	116	110	106	110	112	108	110	107	115	112	105	1319	110			14
15						105	126	122	114	109	110	104	(790)	(113)^{7}			15
16	112	99	102	110	111	111	105	112	110	106	106	107	1291	108			16
17	105	104	110	116	111	110	104	106	104	117	109	105	1301	108			17
18	105	107	114	114	106	113	114	108	109	103	105	106	1304	109			18
19	108	112	108	108	109	114	116	118	119	107	115	107	1341	112			19
20	108	113	107	111	116	104	107	113	107	107	111	109	1313	109			20
21	103	114	105	109	121	110	110	114	113	105	112	113	1329	111			21
22	104	100	114	115	108	119	112	106	108	116	113	106	1321	110			22
23	103	121	106	112	113	117	109	116	103	113	103	115	1331	111			23
24	108	111	110	110	115	108	114	111	114	104	115	110	1330	111			24
25	104	113	115	113	116	116	113	115	119	116	108	109	1357	113			25
26	112	105	100	113	116	112	115	109	115	117	110	106	1330	111			26
27	108	109	113	109	117	110	112	122	107	107	108	107	1329	111			27
28	105	111	111	116	109	114	120	115	115	108	115	109	1348	112			28
29	112	109	115	118	113	105	108	114	108	111	112	106	1331	111			29
30	116	111	115	111	117	113	111	112	117	115	112	114	1364	114			30
31																	31
Sum	2438	2484	2618	2553	2575	2558	2525	2574	2533	2533	2512	2473	30276	2525	109.8	(23)	
Mean	106.0	108.0	109.5	111.0	112.0	111.2	109.8	111.9	110.1	110.1	109.2	107.5	13163	3289	109.6	(30)	
													109.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 43

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	122	111	114	112	113	114	115	123	115	119	116	109		1383	115			1
2	113	108	115	116	119	112	109	109	116	118	110	108		1353	113			2
3	117	125	112	118	106	115	122	107	115	117	116	114		1384	115			3
4	113	116	119	128	127	113	120	121	124	124	118	110		1433	119			4
5	120	106	122	114	117	117	112	114	123	118	122	119		1404	117			5
6	117	127	119	115	116	109	120	114	118	121	122	116		1414	118			6
7	114	117	122	116	114	123	122	118	128	113	122	112		1421	118			7
8	107	115	111	112	117	120	126	116	127	113	113	107		1384	115			8
9	120	116	117	115	114	123	113	120	120	124	120	114		1416	118			9
10	114	113	117	117	117	121	114	124	115	120	116	112		1400	117			10
11	115	121	124	115	114	121	117	122	124	120	114	121		1428	119			11
12	116	127	118	120	129	119	119	115	115	126	117	111		1432	119			12
13	116	115	124	119	113	120	112	119	120	106	114	106		1384	115			13
14	120	108	110	118	128	120	109	117	114	110	108	106		1368	114			14
15	109	112	114	123	119	113	116	116	117	116	108	107		1370	114			15
16	110	118	124	114	117	113	116	114	117	114	114	117		1388	116			16
17	117	112	118	112	109	111	115	122	116	112	118	114		1376	115			17
18	111	115	124	120	110	118	125	111	104	120	122	115		1395	116			18
19	116	119	122	109	114	112	115	112	116	118	114	103		1370	114			19
20	105	110	114	115	114	117	120	118	115	106	115	118		1367	114			20
21	110	113	107	118	116	125	121	118	116	108	112	111		1375	115			21
22	114	109	114	118	121	113	123	124						(936)	(117)^{8}			22
23						119	117	112	120	115	108	116		(807)	(115)^{7}			23
24	118	115	116	115	120	116	112	113	113	118	112	103		1371	114			24
25	111	114	119	115	110	98	115	111						(893)	(112)^{8}			25
26					109	116	120	119	112	120	117	110		(923)	(115)^{8}			26
27	108	105	116	121	118	115	108	114			105	110		(1120)	(112)^{10}			27
28	119	111	120	110	113	105	107	104	111	106	105	110		1321	110			28
29	114	113	112	115	109	105	108	109			100	107		(1092)	(109)^{10}			29
30	109	105	129	123	116	117	108	113	110	109	110	114		1363	114			30
31	115	117	110	112	124	124	113	109	119	105	117	109		1374	114			31
Sum	2863	2872	2942	2906	2916	2918	2898	2889	2928	2881	2875	2786		34674	2888	115.5	(25)	
Mean	114.5	114.9	117.7	116.2	116.6	116.7	115.9	115.6	117.1	115.2	115.0	111.4		1386.8	3568	115.1	(31)	
														115.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 44

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	110	111	124	109	112	118	121	123	113	106	117	111		1375	115			1
2	113	107	113	116	128	124	120	114	116	114	102	99		1366	114			2
3	110	110	112	105	90	94	97	97	99	103	95	89		1201	100			3
4	86	95	98	98	99	89	97	95	101	92	86	99		1135	95			4
5	97	104	105	106	105	94	101	99	87	91	95	88		1172	98			5
6	94	102	103	100	101	93	96	100	99	101	92	87		1168	97			6
7	95	91	102	100	98	105	108	98	101	106	104	100		1208	101			7
8	95	96	100	100	111	115	108	106	114	107	99	98		1249	104			8
9	99	102	107	113	119	114	122	110	112	98	104	107		1307	109			9
10	113	102	110								110	103		(538)	(108)^{5}			10
11	108	114	109	107	114	120	114	106	113	105	107	105		1322	110			11
12	112	118	115	113	108	109	115	111	113	114	107	115		1350	112			12
13	110	112	114	120	117	115	118	115	114	120	113	115		1383	115			13
14	108	115	113	117	122	118	111	115	116	115	121	116		1387	116			14
15	112	117	121				126	115	111	115	116	118		(1051)	(117)^{9}			15
16	122	114	113	125	114	112	116	112	119	118	116	109		1390	116			16
17	115	113	110	112	117	119	118	117	110	114	107	101		1353	113			17
18	107	118	113	113	115	114	112	112	119	123	110	117		1373	114			18
19	110	99	110	108	107	106	112	115	116	117	107	111		1318	110			19
20	105	109	107	120	112	106	104	107	108	109	101	97		1285	107			20
21	102	108	110	108	102	104	107	110	98	107	106	106		1268	106			21
22	115	113	102	108	107	110	105	108	116	110	113	121		1328	111			22
23	114	115	108	112	115	110	109	109	116	112	113	111		1344	112			23
24	112	119	120	114	117	113	121	114	110	110	113	110		1373	114			24
25	111	112	116	110	122	119	107	112			119	109		(1137)	(114)^{10}			25
26	113	116	123	121	116	116	114	119	113	110	118	112		1391	116			26
27	118	121	124	125	115	114	114	115	108	119	118	118		1409	117			27
28	107	111	122	116	113	119	113	118	112	111	122	118		1382	115			28
29	113	118	115	119	117	112	114	111			122	114		(1155)	(116)^{10}			29
30	117	113	115	120	111	114	114	117	108	118	122	119		1388	116			30
31	115	115	118	111	116	107	110	111			107	112		(1122)	(112)^{10}			31
Sum	2794	2846	2892	2906	2885	2865	2887	2862	2851	2850	2808	2779		34225	2853	109.7	(26)	
Mean	107.4	109.5	111.2	111.8	111.0	110.2	111.0	110.1	109.7	109.6	108.0	106.9		1316.4	3420	110.3	(31)	
														109.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 45

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	121	123	114	111	112	113	114	114	108	112	104	105		1351	113			1
2	116	112	111	106	111	105	113	112	116					(1002)	(111)^{9}			2
3					117	110				108	114	112		(561)	(112)^{5}			3
4	109	106	109	111	119	114	114	112	113	114	113	111		1345	112			4
5	120	112	115	114	122	109	105	115	115	115	111	117		1370	114			5
6	109	120	124	120	126	121	112	119	112	113	114	111		1401	117			6
7	112	113	114	116	122	119	120	113	118					(1047)	(116)^{9}			7
8											117	124		(241)	(120)^{2}			8
9	114	116	110	110	112	106	114	112	119	117	116	114		1360	113			9
10	116	120	119	121	112	112	113	106	120	108	123	116		1386	116			10
11	114	118	113	117	117	115	114	111	116	111	113	113		1372	114			11
12	112	116	113	121	123	121	123	116	123	119	122	113		1422	118			12
13	120	116	121	120	114	127	117	119	113	115	123	115		1420	118			13
14	130	111	114	114	114	124	127	123	126	107	106	108		1404	117			14
15	104	102	106	117	116	110	112	108	119	115	109	109		1327	111			15
16	112	118	111	114	103	109	115	110	108	115	113	112		1340	112			16
17	105	111	112	107	117	114	112	119	116	108	112	114		1347	112			17
18	108	111	105	112	116	108	106	115	103	108	101	109		1302	108			18
19	115	109	118	99	108	104	110	121	108	125	112	114		1343	112			19
20	110	120	116	117	109	116	119	118	108	115	115	120		1383	115			20
21	119	106	120	118	119	118	111	115	113	116	118	116		1389	116			21
22	110	116	118	115	110	120	113	114			122	115		(1153)	(115)^{10}			22
23	118	119	116	113	117	117	119	108	114	105	117	108		1371	114			23
24	112	107	119	113	108	114	112	114	109	112	119	108		1347	112			24
25	109	111	112	124	115	112	112	113	122	105	106	109		1350	112			25
26	109	115	108	115	117	114	104	105	114	124	119	103		1347	112			26
27	113	118	120	116	116	112	102	113	106	106	120	117		1359	113			27
28	108	108	115	112	114	113	113	115	107	104	110	104		1323	110			28
29	109	116	116	120	107	115	111	110	103	113	110	120		1350	112			29
30	112	118	120	116	113	116	105	114	110	112	119	110		1365	114			30
31																		31
Sum	2828	2847	2866	2872	2866	2854	2816	2845	2825	2814	2845	2796		34074	2837	113.5	(25)	
Mean	113.1	113.9	114.6	114.9	114.6	114.2	112.6	113.8	113.0	112.6	113.8	111.8		1362.9	3411	113.7	(30)	
														113.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 46

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	112	114	127	113	110	116	112	109	105	115	121	112		1366	114			1
2	116	113	111	117	112	108	103	105	121	107	109	118		1340	112			2
3	111	116	109	113	104	109	111	108	113	108	105	113		1320	110			3
4	119	113	113	117	113	109	102	105	107	105	112	105		1320	110			4
5	104	106	111	110	115	109	104	106	110	112	111	112		1310	109			5
6	119	105	114	112	104	108	99	101	107	99	109	108		1285	107			6
7	105	103	97	107	108	111	103	105	109	121	108	105		1282	107			7
8	100	108	116	114	112	109	113	106	112	108	120	114		1332	111			8
9	117	118	113	108	114	117	110	116	110	95	115	115		1348	112			9
10	104	115	116	105	110	107	106	103	104	113	110	111		1304	109			10
11	111	111	119	117	125	112	108	104	109	116	101	117		1350	112			11
12	110	113	113	112	108	105	110	112	113	107	109	112		1324	110			12
13	106	102	110	115	110	113	117	115	109	107	98	88		1290	108			13
14	93	109	115	103	107	105	101	100	97	96	103	104		1233	103			14
15	103	111	110	110	106	105	89	95	99	87	90	100		1205	100			15
16	98	108	107	118	100	101	97	93	91	102	95	108		1218	102			16
17	112	110	114	107	106	102	105	102	96	92	110	105		1261	105			17
18	103	112	106	101	105	103	103	106	108	104	101	106		1258	105			18
19	113	109	113	111	105	102	108	102	104	106	104	101		1278	106			19
20	101	105	109	116	113	112	98	103	105	103	113	110		1288	107			20
21	107	99	109	107	116	106	109	101	109	106	104	103		1276	106			21
22	102	104	115	110	108	105	109	108	114	112	109	111		1307	109			22
23	111	110	105	101	102	99	106	111	112	116	108	108		1289	107			23
24	106	107	117	110	116	108	110	107	112	109	116	115		1333	111			24
25	113	114	107	110	114	112	112	115	111	105	116	106		1335	111			25
26	103	107	110	113	105	109	108	108	109	111	110	104		1297	108			26
27	108	109	108	109	104	101	97	109	103	100	102	116		1266	106			27
28	108	105	111								106	108		(538)	(108)^{5}			28
29	100	103	109	107	108	111	111	117	109	113	104	100		1292	108			29
30	112	110	108	110	108	102	103	103	108	110	110	108		1292	108			30
31	101	107	100	107	105	107	112	106	106	112	106	103		1272	106			31
Sum	3220	3271	3331	3310	3273	3223	3176	3181	3222	3197	3229	3238		38871	3239	108.0	(30)	
Mean	107.3	109.0	111.0	110.3	109.1	107.4	105.9	106.0	107.4	106.6	107.6	107.9		1295.5	3347	108.0	(31)	
														108.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 47

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	102	98	107	113	111	121	110	120	107	112	107	102		1310	109			1
2	105	106	115	115	116	118	115	119	116	116	114	120		1375	115			2
3	120	111				113	108	114	119	109	114	109		(1017)	(113)			3
4	116	112	113	110	122	116	123	111	111	101	111	104		1350	112			4
5	111	110	111	110	120	115	107	104	107	105	98	106		1304	109			5
6	112	111	106	107	109	109	102	105	101	100	101	107		1270	106			6
7	106	107	105	102	96	105	106	96	101	118	102	109		1253	104			7
8	109	108	116	108	108	106	105	100	104	106	112	108		1290	108			8
9	107	113	109	110	108	102	107	96	106	92	98	96		1244	104			9
10	93	94	99	98	101	102	98	89	99	97	92	95		1157	96			10
11	92	103	103	105	109	98	98	94	94	102	99	93		1190	99			11
12	104	105	104	103	102	98	103	96	107	108	103	109		1242	104			12
13	101	110	104	115	109	100	113	112	111	103	101	100		1279	107			13
14	98	99	92	99	107	103	99	102	103	95	103	101		1201	100			14
15	96	106	95	100	100	108	100	104	102	103	106	104		1224	102			15
16	110	106	111	110	103	104	97	97	110	114	106	104		1272	106			16
17	107	105	104	113	106	108	105	105	104	104	107	103		1271	106			17
18	110	107	106	109	110	104	105	90	109	107	108	104		1269	106			18
19	102	99	113	119	103	106	107	103	106	106	103	102		1269	106			19
20	104	108	118	98	102	108	102	110	103	109	100	96		1258	105			20
21	102	105	110	108	101	114	109	106	98	99	105	104		1261	105			21
22	89	114	103	98	104	100	104	109	107	110	93	99		1230	102			22
23	104	101	105	100	104	112	118	114	104	104	103	106		1275	106			23
24	114	113	110	114	115	117	112	109	103	117	110	120		1354	113			24
25	113	124	113	123	108	119	120	107	121	114	117	109		1388	116			25
26	109	116	125	119	108	111	109	120	120	114	114	107		1372	114			26
27	111					113	108	120	111	116	104	106		(889)	(111)			27
28	110	114	121	119	110	113	120	116	117	114	117	118		1389	116			28
29	104	112	117	109	109	113	115	110	118	112	113	124		1356	113			29
30	104	114	121	124	113	109	106	112	114	107	112	114		1350	112			30
31																		31
Sum	2934	3020	3056	3058	3014	3039	3015	2956	3003	2989	2955	2964		36003	3001	107.2	(28)	
Mean	104.8	107.9	109.1	109.2	107.6	108.5	107.7	105.6	107.2	106.8	105.5	105.9		1285.8	3225	107.5	(30)	
														107.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 48

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1949

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	117	113	107	114	111	113	114	125	111	114	111	116		1366	114			1
2	111	115	111	112	112	110	117	107	112	119	115	107		1348	112			2
3	116	113	117	115	114	104	111	112	114	112	117	112		1357	113			3
4	111	116	116	108	111	102	107	104	106	107	105	101		1294	108			4
5	100	104	111	106	108	103	101	107	110	106	100	104		1260	105			5
6	113	111	110	111	111	107	112	107	110	106	111	112		1321	110			6
7	107	114	106	119	106	121	110	119	111					(1013)	(113)[9]			7
8				102	118	114	115	115	110	116	113	113		(1016)	(113)[9]			8
9	111	114	117	114	120	110	118	113	110	111	112	105		1355	113			9
10	115	110	115	113	111	118	118	115	121	123	104	116		1379	115			10
11	111	108	106	110	123	114	109	122	111	109	113	119		1355	113			11
12	107	123	113	114	126	108	117	112	119	122	119	113		1393	116			12
13	112	111	127	110	115	117	123	121	112	129	122	114		1413	118			13
14	117	116	110	121	126	118	118	116	128	112	108	111		1401	117			14
15	112	118	116	115	106	117	117	112	110	109	111	108		1351	113			15
16	113	108	106	119	124	114	113	113	112	109	103	117		1351	113			16
17	107	101	107	111	107	110	109	109	120	111	110	103		1305	109			17
18	112	113	112	115	113	112	116	113	116	104	111	112		1349	112			18
19	108	109	107	119	115	123	105	108	112	109	117	114		1346	112			19
20	119	129	115	110	119	123	114	116	116	112	110	106		1389	116			20
21	116	114	117	120	115	120	113	116	110	109	110	110		1370	114			21
22	115	110	115	106	119	116	108	116	118	117	121	113		1374	114			22
23	111	113	111	110	125	114	108	121	112	111	111	105		1352	113			23
24	107	105	108	118	119	116	122	119	122	113	121	111		1381	115			24
25	126	115	110	127	127	113	117	117	108	109	106	106		1381	115			25
26	113	119	116	114	115	111	118	113	117	116	115	110		1377	115			26
27	112	117	123	113	118	117	116	119	116	117	103	122		1393	116			27
28	121	111	116	116	112	112	120	131	110	117	111	120		1397	116			28
29	106	117	125	121	115	119	115	120	114	115	115	118		1400	117			29
30	116	107	109	117	110	117	115	110	109	106	117	102		1335	111			30
31	105	110	116	105	98	107	100	93	99	96	98	103		1230	102			31
Sum	3260	3270	3289	3304	3345	3285	3291	3307	3285	3250	3227	3210		39323	3277	113.0	(29)	
Mean	112.4	112.8	113.4	113.9	115.3	113.3	113.5	114.0	113.3	112.1	111.3	110.7		1356.0	3503	113.0	(31)	
														113.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 49

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	97	105	103	98	95	103	102	106	107	92	98	106	1212	101			1
2	100	102	107	99	104	103	101	99	103	98	116	107	1239	103			2
3	109	110	113	109	110	110	108	116	115	114	112	107	1333	111			3
4	114	116	114	118	116	121	114	119	117	112	125	115	1401	117			4
5	119	106	108	114	120	113	109	110	112	111	111	111	1344	112			5
6	101	114	109	111	107	100	103	106	108	105	104	96	1264	105			6
7	101	101	111	104	107	96	111	104	105	110	99	99	1248	104			7
8	105	104	104	101	108	110	106	105	107	106	101	104	1261	105			8
9	107	109			101	106	104	103	107	99	101	105	(1042)	(104)^{10}			9
10	108	99	102	103	107	108	101	107	108	110	107	106	1266	106			10
11	100	104	100	106	111	113	107	117	91	100	100	104	1253	104			11
12	98	101	110	97	104	113	99	101	108	109	105	107	1252	104			12
13	101	102	103	102	102	106	102	105	106	114	106	103	1252	104			13
14	104	108	114	109	102	104	106	111	105	103	107	102	1275	106			14
15	102	102	97	113	111	108	109	103	104	106	108	104	1267	106			15
16	107	105	102	112	112	109	107	101	100	107	104	106	1272	106			16
17	111	113	111	107	105	109	106	101	103	108	102	104	1280	107			17
18	105	101			114	107	113	109	109	105	101	104	(1068)	(107)^{10}			18
19	108	104	104	112	108	100	109	109	117	109	106	108	1294	108			19
20	110	109	106	112	107	109	110	109	111	110	109	109	1311	109			20
21	107	102	100	103	108	109	118	106			108	104	(1065)	(106)^{10}			21
22	105	111	109	117	116	100	115	119	118	106	108	105	1329	111			22
23	108	105	104	113	105	115	110	111	110	109	113	105	1308	109			23
24	100	108	102	112	112	115	113		120	112	113	113	(1220)	(111)^{11}			24
25	113	109	111	116	112	114	116	107	113	107	114	116	1348	112			25
26	108	111	112	111	108	114	108	108	113	104	102	109	1308	109			26
27	106	104	103	115	109	106	112	115	118	116	102	110	1316	110			27
28	107	111	115	110	110	109	114	111	112	119	109	107	1334	111			28
29	104	109	112	115	114	106	108	105	104	110	108	100	1295	108			29
30	106	110	105	108	105	100	102	109	103	111	108	106	1273	106			30
31	107	112	108	113	106	103	108	109	111	117	107	105	1306	109			31
Sum	2859	2887	2897	2945	2921	2902	2903	2923	2929	2923	2891	2861	34841	2903	107.5	(27)	
Mean	105.9	106.9	107.3	109.1	108.2	107.5	107.5	108.3	108.5	108.3	107.1	106.0	1290.6	3331	107.5	(31)	
													107.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 50

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	100	101	102	112	109	113	112	116	109	113	106	103	1296	108			1
2	95	106	99	112	104	108	110	106	107	108	109	106	1270	106			2
3	108	97	108	104	104	104	110	117	112	104	105	95	1268	106			3
4	91	92	101	109	107	101	106	108	100	107	106	99	1227	102			4
5	96	101	103	103	107	109	97	111	105	100	103	96	1231	103			5
6	104	102	107	109	106	101	109	101	103	100	103	110	1255	105			6
7	103	111	110	108	105	103	104	98	100	107	100	102	1251	104			7
8	93	101	109	101	104	99	96	99	101	103	97	95	1198	100			8
9	103	99	100	103	104	103	101	101	106	106	107	100	1233	103			9
10	98	101	96	104	102	92	105	104	108	99	99	94	1202	100			10
11	102	104	105	101	104	107	108	104	111	112	108	98	1264	105			11
12	99	106	105	109	104	109	103	113	101	107	98	100	1254	104			12
13	108	108	106	104	109	107	108	105	116	101	115	100	1287	107			13
14	98	115	107	110	113	109	108	117	109	108	104	105	1303	109			14
15	104	105	109	111	104	104	112	112	102	106	103	107	1279	107			15
16	110	106	108	112	117	120	110	116	117	104	112	113	1345	112			16
17	109	108	109	113									(439)	(110)^{4}			17
18																	18
19																	19
20																	20
21																	21
22																	22
23																	23
24							104	90	88	87	91	95	(555)	(92)^{6}			24
25	89	106	100	100	98	102	97	92	98	96	89	90	1157	96			25
26	96	97	96	101	98	94	90	93	99	98	99	97	1158	96			26
27	95	106	111	98	106	104	105	97	104	101	104	96	1227	102			27
28	98	92	97	101	107	104	97	106	109	97	86	91	1185	99			28
29																	29
30																	30
31																	31
Sum	1990	2056	2079	2112	2112	2093	2088	2116	2117	2077	2053	1997	24890	2074	103.7	(20)	
Mean	99.5	102.8	104.0	105.6	105.6	104.6	104.4	105.8	105.8	103.8	102.6	99.8	1244.3	2276	103.5	(22)	
													103.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 51

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	96	101	102	96	116	100	106	103	94	99	106	106	1225	102			1
2	99	97	103	102	106	103	100	103	104	107	111	112	1247	104			2
3	102	112	106	106	109	103					106	102	(846)	(106)^{8}			3
4	104	106	112	111	105	95	102	111	109	107	104	111	1277	106			4
5	109	111	107	110	102	98	106	105	114	106	111	104	1283	107			5
6	109	113	108	106	112	107	105	95	103	109	97	102	1266	106			6
7	105	111	107	101	110	96	96						(726)	(104)^{7}			7
8						100	96	100	103	97	108	104	(708)	(101)^{7}			8
9	99	103	107	109	107	102	97	114	114	106	106	100	1264	105			9
10	104	96	106	106	111	106	108	101	101	105	103	103	1250	104			10
11	113	99	101	106	103	98	96	102	105	110	107	107	1247	104			11
12	106	109	109	108	101	104	101	98	105	100	109	104	1254	104			12
13	100	97	100	107	106	107	112				101	103	(933)	(104)^{9}			13
14	106	111	106	114	113	108	106	113	108	107	107	105	1304	109			14
15	103	109				115	107	111	100	104	101	92	(942)	(105)^{9}			15
16	99	108	105	109	102	107	114	110	107	98	103	104	1266	106			16
17	100	115	104	108	115	114	114	106	116	110	104	99	1305	109			17
18	102	106	107	119	112	114	110	119	109	104	106	104	1312	109			18
19	103	104	117	121	111	109	113	116	113	112	113	105	1337	111			19
20	113	111	111	110	120	107	125	121	114	104	112	107	1355	113			20
21	112	110	107	120	115	115	116	120	118	120	116	117	1386	116			21
22	124	123	109	125	119	117	110	121	118	117	118	114	1415	118			22
23	118	120	113	119	112	116	104	112	114	111	114	122	1375	115			23
24	118	120	117	112	111	112	113	116	116	113	115	110	1373	114			24
25	110	112	115	112	115	119	122	124	113	113	113	111	1379	115			25
26	103	124	114	117	116	115	108	119	114	121	119	108	1378	115			26
27	120	107	109	122	111	117		113	115	114	110	112	(1250)	(114)^{11}			27
28	105	108	119	116	117	110	108	114	115	121	101	104	1338	112			28
29	109	104	96	108	118	113	109	116	112	116	98	96	1295	108			29
30	104	105	104	105	101	109	106	113	114	110	114	102	1287	107			30
31	101	96				111	118	113	111	108	103	100	(961)	(107)^{9}			31
Sum	2565	2616	2599	2669	2660	2598	2599	2672	2650	2626	2607	2557	31418	2619	109.1	(24)	
Mean	106.9	109.0	108.3	111.2	110.8	108.2	108.3	111.3	110.4	109.4	108.6	106.5	1308.9	3360	108.4	(31)	
													109.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 52

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	98	111	101	106	103	112	117	107	103	104	106	112	1280	107			1
2	110	106	102	110	100	105	107	108			109	99	(1056)	(106)^{10}			2
3	107	99	111	111	104	109	111	107	104	103	99	97	1262	105			3
4	111	103	103	110	107	110	119	111	103	105	108	102	1292	108			4
5	106	108				100	105	112	109	108	102	102	(952)	(106)^{9}			5
6	105	112	115	111	111					102			(656)	(109)^{6}			6
7			110	106	107	111	106	110	113	115	101	111	(1090)	(109)^{10}			7
8	99	100	115	107	108	111	112	110	113	107	112	112	1306	109			8
9	110	118	115	109							107	113	(672)	(112)^{6}			9
10	116	110	119	116	110	110	111	107	112	106	118	115	1350	112			10
11	109	116	117	110	112	113	113	107			112	103	(1112)	(111)^{10}			11
12	118	118				114	109	112	110	113	114	102	(1010)	(112)^{9}			12
13	110	110	116	102	110	111	109	121	108	108	107	104	1316	110			13
14	105	114	111	111	111	103	106	115	112	112	102	110	1312	109			14
15	100	112			115	110	107	111	111	101	104	107	(1078)	(108)^{10}			15
16	110	108	116	110	112	104	118	105	112	107	109	108	1319	110			16
17	107	108	117	109	110	105	102	113	100	101	104	110	1286	107			17
18	104	104	113	123	115	106	100	104	110	113	117	105	1314	110			18
19											107	104	(211)	(106)^{2}			19
20	113	111	118	120	111	112	118	119	117	113	110	116	1378	115			20
21	103	104	115	122	116	119	118	118	113	114	103	117	1362	114			21
22	114	109	106	101	116	122	120	111	110	106	107	110	1332	111			22
23	100	114	108	116	112	109	110	104	121	114	109	104	1321	110			23
24													–	–			24
25											111	107	(218)	(109)^{2}			25
26	111	114	107	108	114	114	109	112	116	107	114	116	1342	112			26
27	118	110	116	114	111	110	111	111	112	109	114	107	1343	112			27
28	108	114	103	115	114	104	115	116	116	114	106	107	1334	111			28
29	115	106	117	120	121	112	107	107	120				(1025)	(114)^{9}			29
30					110				110	112	108	126	(566)	(113)^{5}			30
31																	31
Sum	1834	1843	1895	1901	1884	1871	1906	1891	1882	1843	1845	1854	22449	1872	110.1	(17)	
Mean	107.9	108.4	111.5	111.8	110.8	110.1	112.1	111.2	110.7	108.4	108.5	109.0	1320.4	3187	109.9	(29)	
													110.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 53

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	110	112	116	110	113	108	112	118	116	116	116	116		1363	114			1
2	112	109	115	110	118	114	116	113	116	114	108	110		1355	113			2
3	119	113	112	114	108	110	118	116	116	108	113	110		1357	113			3
4	110	117	117	119	111	116	112	107	109	111	109	110		1348	112			4
5	119	110	111	119	116	107	118	111	104	111	114	106		1346	112			5
6	112	113	119	110	118			105	114	120	102	106		(1119)	(112)^{10}			6
7	107	112	114	119	113	115	108	111	109	110	111	115		1344	112			7
8	108	117	114	114	119	115	110	115	119	106	109	111		1357	113			8
9	114	109	110	121	109	111	109	107	119	111	111	111		1342	112			9
10	111	116	115	112	107	115	112	111	111	113	115	115		1353	113			10
11	118	123	118	114	110	114	119	112	112	112	117	110		1379	115			11
12	112	112	114	115	119	113	110	110	116	110	112	115		1358	113			12
13	104	116	110	111	113	110	124	104	112	107	110	112		1333	111			13
14	112	111	115	116	111	107	106	101	103	109	112	115		1318	110			14
15	108	102	122	117	111	123	113	111	111					(1018)	(112)^{9}			15
16											113	111		(224)	(112)^{2}			16
17	105	128	121	114	116	125	111	121	119	112	116	115		1403	117			17
18	107	112	123	123	123	126	118	118	116	123	116	120		1425	119			18
19	116	117	117	127	113	118	124	112	116	120	109	117		1406	117			19
20	111	117	126	130	137	131	125	118	121	121	118	116		1471	123			20
21	116	119	118	127	120	122	120	122	120	121	114	112		1431	119			21
22	113	115	123	118	119	112	123	119	114	112	95	94		1357	113			22
23	94	104	104	107	106	106	100	107	99	99	106	117		1249	104			23
24	111	100	108	112	111	115	110	110	109	108	109	106		1309	109			24
25	104	104	110	114	104	110	104	112	105	114	108	97		1286	107			25
26	107	110	116	115	112	103	104	110	112	113	102	108		1312	109			26
27	108	110	114	117	120	101	116	110	109					(1005)	(112)^{9}			27
28						106	104	103	117	113	97	102		(742)	(106)^{7}			28
29	105	106	101	108	102	114	109	104	112	102	100	108		1271	106			29
30					102	110			114	109	106	107		(648)	(108)^{6}			30
31	109	106	119	115	111	109	116	110	113	113	116	115		1352	113			31
Sum	2754	2815	2867	2904	2841	2846	2838	2799	2818	2796	2766	2781		33825	2819	112.8	(25)	
Mean	110.2	112.6	114.7	116.2	113.6	113.8	113.5	112.0	112.7	111.8	110.6	111.2		1352.9	3481	112.3	(31)	
														112.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 54

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	116	112	116	110	114	121	114	109	118	106	104	117		1357	113			1
2	110	109	114	116	116	118	114	115	113	113	109	109		1356	113			2
3	114	119	118	111	117	114	116	108	115	104	117	112		1365	114			3
4	115	114	122	119	111	117	111	111	117	104	109	111		1361	113			4
5	119	109	117	116	123	118	115	110	110	110	115	115		1377	115			5
6	121	117	113	127	113	130	121	120	119	115	104	112		1412	118			6
7	123	123	119	125	118	121	114	111	111	120	105	120		1410	118			7
8	117	121	119	121	126	119	125	114	119	117	110	121		1429	119			8
9	118	123	123	118	120	116	125	115	104	113	118	109		1402	117			9
10	112	116	119	114	114	116	116	115	116	111	115	108		1372	114			10
11	103	119	116	113	116	116	118	112	119	116	114	113		1375	115			11
12	108	119	112	118	119	110	116	113	109	111	115	113		1363	114			12
13	121	119	119	120	125	120	125	119	123	114	114	119		1438	120			13
14	115	127	129	131	120	117	117	117	111	106	110	116		1416	118			14
15	118	112	125	126	127	127	124	130	125	117	118	112		1461	122			15
16	113	126	122	121	128	126	121	122	120	117	113	114		1443	120			16
17	115	112	116	122	114	127	112	119	120	110	119	113		1399	117			17
18	130	116	121	116	120	113	120	114	113	123	112	106		1404	117			18
19	122	115	120	117	116	112	109	115	119	113	112	111		1381	115			19
20	119	116	118	119	118	117	123	110	112	117	115	118		1402	117			20
21	118	124	120	127	119	119	118	122	110	122	121	115		1435	120			21
22	115	113	124	115	122	118	119	118	113	114	113	117		1401	117			22
23	119	122	118	123	118	112	118	115	115	100	104	101		1365	114			23
24	111	116	122	112	111	106	111	101	94	115	101	104		1304	109			24
25	107	102	116	106	103	105	102	103	101	102	106	108		1261	105			25
26	105	107	107	111	106	102	110	110	106	111	110			(1185)	(108)^{11}			26
27						111	111	107	113	113	111	106		(772)	(110)^{7}			27
28	108	121	118	112	113	117	108	108	120	103	99	112		1339	112			28
29	108	116	111	112	110	110	115	115	110	121	110	105		1343	112			29
30	117	103	111	113	111	112	112	102	106	105	106	104		1302	109			30
31																		31
Sum	3232	3261	3318	3300	3282	3274	3259	3183	3182	3139	3108	3135		38673	3227	115.2	(28)	
Mean	115.4	116.5	118.5	117.9	117.2	116.9	116.4	113.7	113.6	112.1	111.0	112.0		13812	3445	114.8	(30)	
														115.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 55

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	100	104	105	110	103	109	113	105	115	100	100	100		1264	105			1
2	95	99	109	110	106	108	111	111	97	102	105	104		1257	105			2
3	111	107	117	114	116	108	116	113	118	109	109	117		1355	113			3
4	108	106	119	115	108	110	129	110	109	114	117	107		1352	113			4
5	110	115	110	112	109	114	108	107	112	109	104	111		1321	110			5
6	112	114	112	115	115	112	113	106	110	104	110	107		1330	111			6
7	111	113	113	113	109	122	110	114	113	103	108	109		1338	112			7
8	110	106	117	123	122	118	120	119	107	106	118	111		1377	115			8
9	119	117	118	119	131	126	120	125	117	112	119	115		1438	120			9
10	114	124	121	124	124	127	119	119	111	110	111	107		1411	118			10
11	112	113	125	122	127	116	123	119	109	121	114	111		1412	118			11
12	116	113	115	127	124	127	118	117	120	109	112	114		1412	118			12
13	110	120	118	119	125	117	119	116	114	117	108	111		1394	116			13
14	111	120	124	113	114	119	112	108	120	110	122	115		1388	116			14
15	120	120	120	109	117	118	114	120	120	117	118	113		1406	117			15
16	117	115									114	114		(460)	$(115)^{4}$			16
17	115	122	121	123	108	116	111	104	117	115	110	117		1379	115			17
18	117	108	115	122	116	123	123	120	127	114	114	118		1417	118			18
19	112	116	117	125	120	123	120	116	124	116	118	112		1419	118			19
20	123	117	119	114	120	117	113	123	112	107	112	112		1389	116			20
21	109	113	118	115	108	105	110	115	113	116	113	109		1344	112			21
22	107	101	114	108	110	113	105	111	106	105	104	103		1287	107			22
23	106	110	113	111	114	103	109	106	105	112	110	105		1304	109			23
24	114	108	114	113	110	109	104	109	107	112	108	104		1312	109			24
25	110	108	123	114	115	109	117	105	119	109	116	113		1358	113			25
26	104	115	118	113	125	112	116	122	115	118	116	114		1388	116			26
27	111	112	111	121	123	123	114	113	118	120	106	118		1390	116			27
28	112	112	114	119	116	118	119	108	107	108	110	114		1357	113			28
29	113	104	112	113	121	121	121	116	114	112	110	108		1365	114			29
30	114	112	119	115	117	112	113	120	116	116	105	124		1383	115			30
31	111	109	121	120	119	112	111	116	116	113	110	105		1363	114			31
Sum	3337	3358	3492	3491	3492	3467	3451	3413	3408	3336	3337	3328		40910	3412	113.7	(30)	
Mean	111.2	111.9	116.4	116.4	116.4	115.6	115.0	113.8	113.6	111.2	111.2	110.9		1363.6 113.6	3527	113.8	(31)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 56

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	112	108	113	110	116	112	106	115	120	117	108	104		1341	112^{9}			1
2	98	102				111	110	117	110	107	100	106		(961)	(107)			2
3	108	99	113	118	114	119	113	112	110	107	112	112		1337	111			3
4	96	105	115	108	107	108	111	109	102	108	107	100		1276	106			4
5	104	101	112	108	107	108	119	105	106	107	100	103		1280	107			5
6	102	102	105	106					107	110	111	106		(849)	$(106)^{8}$			6
7	110	119	110	115	120	105	109	110	118	118	100	106		1340	112			7
8	98	110	109	108	107	113	106	111	115	106	109	108		1300	108			8
9	103	109	110	109	110	112	107	109	119	116	116	109		1329	111			9
10	113	111	112	114	107	117	118	110	117	117	120	110		1366	114			10
11	108	105	110	115	117	118	115	110	118	110	118	124		1368	114			11
12	112	123	118	112	115	115	107	115	108	122	120	117		1384	115			12
13	113	121	122	120	111	112	113	118	123	122	123	115		1413	118			13
14	120	121	115	118	117	119	112	122	116	119	118	117		1414	118			14
15	118	112	111	120	130	113	111	109	116	117	121	127		1405	117			15
16	117	120	121	129	122	113	116	112	123	115	116	118		1422	118			16
17	120	119	120	116	115	118	121	115	123	114	108	116		1405	117			17
18	116	106	114	115	109	122	108	112	116	113	110	114		1355	113			18
19	105	116	112	116	125	115	112	113	109	113	109	104		1349	112			19
20	108	118	116	120	113	113	111	113	107	111	108	109		1347	112			20
21	99	107	109	109	116	107	115	114	109					(985)	$(109)^{9}$			21
22						125	118	116	122	114	114	118		(827)	$(118)^{7}$			22
23						127	120	122	128	121	116	117		(851)	$(122)^{7}$			23
24	114	119	120	122	115	119	121	117	112	122	116	119		1416	118			24
25	117	116	119	127	120	112	118	118	124	115	121	121		1428	119			25
26	118	122	125	128	126	121	123	115	118	117	129	113		1455	121			26
27	123	108	121	119	111	124	118	127	123	117	112			(1303)	$(118)^{11}$			27
28						105	111	119	120	119	116	110		(800)	$(114)^{7}$			28
29	121	109				116	121	122	119					(708)	$(118)^{6}$			29
30									112	117	114	109		(452)	$(113)^{4}$			30
31	103	113	111	107	116	117	123	103	120	109	118	111		1351	113			31
Sum	2433	2493	2528	2555	2539	2521	2500	2473	2540	2515	2507	2477		30081	2506	113.9	(22)	
Mean	110.6	113.3	114.9	116.1	115.4	114.6	113.6	112.4	115.4	114.3	114.0	112.3		1366.9 113.9	353.1	113.9	(31)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 57

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	109	109	115	114	120	117	115	124	115	121	109	111	1379	115			1
2	112	117	118	116	126	118	119	127	114	121	109	105	1402	117			2
3	108	116	113	114	115	108	114	114	110	111	111	108	1342	112			3
4	115	109	116	122							114	121	(697)	(116)^{6}			4
5	112	117	116	127							119	120	(711)	(118)^{6}			5
6	119	119	121	119	121	124	123	122					(966)	(121)^{8}			6
7				121	114	117	109	114	112	118	114	118	(1037)	(115)^{9}			7
8	120	123	114	119	111	121	118	108	117	115	120	116	1402	117			8
9	113	114	118	126	120	116	114	118	114	113	123	114	1403	117			9
10	113	116	117	118	121	118	118	120	110	121	123	122	1417	118			10
11	116	113	125	118	121	109	114	123	118	119	126	119	1421	119			11
12	127	126	130	119	117	116	124	119	120	120	123	118	1459	122			12
13	131	120	112	118	119	112	115	113	110	117	115	119	1401	117			13
14	112	116	124	129	114	110	123	118	115	111	104	112	1388	116			14
15	105	113	116	110	114	115	113	113	109	104	106	106	1324	110			15
16	105	113	110	112	109	110	114	116	110	114	110	106	1329	111			16
17	122	107	116	109	118	110	115	115	108	108	115	118	1361	113			17
18	112	116	123	120	119	113	118	116	107	108	112	111	1375	115			18
19	115	122	121	117	113	114	114	113	115	108	114	114	1380	115			19
20	117	113	123	122	118	118	119	119	125	120	118	122	1434	120			20
21	119	108	122	120	124	110	127	112	124	124	123	118	1431	119			21
22	116	122	115	122	120	121	119	125	127	132	115	117	1451	121			22
23	115	122	121	116	122	121	127	115	119	120	118	120	1436	120			23
24	112	110	118	124	118	123	125	123	123	112	126	108	1422	119			24
25	117	116	115	117	119	116	118	112	112	110	109	115	1376	115			25
26	104	109	118	119	114	112	113	114	114	114	109	106	1346	112			26
27	107	106	112	118	121	118	115	118	118	118	109	112	1372	114			27
28	118	107	109	112	116	115	115	120	110	120	113	109	1364	114			28
29	117	118	113	114	114	118	117	117	115	120	110	112	1385	115			29
30	116	114	117	121	122	122	116	112	116	113	108	117	1394	116			30
31																	31
Sum	2978	2986	3055	3064	3065	3001	3059	3044	2995	3014	2978	2955	36194	3019	116.1	(26)	
Mean	114.5	114.8	117.5	117.8	117.9	115.4	117.7	117.1	115.2	115.9	114.5	113.7	1392.0	3489	116.3	(30)	
													116.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 58

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	111	122	124	123	115	121	111	113	118	110	109	106	1383	115			1
2	114	115	106	119	116	128	117	118	111	117	110	110	1381	115			2
3	112	109	116	111	113	122	119	125	116	113	103	108	1367	114			3
4	108	115	104	125	114	120	117	116	118	111	120	111	1379	115			4
5	114	120	113	115	106	113	115	112	120	121	112	110	1371	114			5
6	117	117	119	112	120	112	123	121	124	115	117	117	1414	118			6
7	114	110				122	121	115	118	123	125	126	(1074)	(119)^{9}			7
8	119	126	114	130	124	115	122	122	121	122	112	128	1455	121			8
9	120	124	119	124	120	122	126	122	120	124	120	123	1464	122			9
10	120	121	122	119	112								(594)	(119)^{5}			10
11							112	118	123	118	116	118	(705)	(118)^{6}			11
12	125	106	111	116	114	113	111	120	108	113	115	105	1357	113			12
13	111	113	111	116	114	122	115	119	119	117	118	120	1395	116			13
14	114	119	116	121	120	114	119	117	122	123	112	113	1410	118			14
15	112	112	120	118	122	121	117	125	122	126	114	104	1413	118			15
16	122	127	116	119	120	113	114	116	109	114	122	112	1404	117			16
17	108	124	116	117	123	135	123	118	113	118	129	123	1447	121			17
18	117	123	114	116	124	119	119	124	121	126	127	125	1455	121			18
19	126	123	130	125	126	120	124	123	114	121	123	120	1475	123			19
20	125	117	127	124	123	125	124	127	124	116	114	120	1466	122			20
21	122	129	123	122	125	125	126	123	122	129	111	111	1468	122			21
22	119	123	127	113	123	122	118	125	115	114	112	115	1426	121			22
23	113	119	113	111	118	117	125	117	117	110	108	108	1376	115			23
24	108	114	116	118	118	119	126	121	117	114	113	110	1394	116			24
25	118	117	115	118	121	122	115	122	113			113	(1174)	(117)^{10}			25
26	116	116	120	114	123	123	118	119	116	119	115	113	1412	118			26
27	125	113	118	115	119	117	119	117	109	123	125	116	1416	118			27
28	118	122	125	118	118	126	117	120	112	125	113	113	1427	119			28
29	104	117	118	115	114	122	119	110	121	120	114	115	1389	116			29
30	115	118	117	120	115	112	110	111	111	116	106	117	1368	114			30
31	118	114	117	107	116	122	106	121	112	112	110	110	1365	114			31
Sum	3133	3197	3170	3184	3203	3240	3200	3222	3152	3189	3104	3083	38077	3176	117.6	(27)	
Mean	116.0	118.4	117.7	117.9	118.6	120.0	118.5	119.3	116.7	118.1	115.0	114.2	1410.4	3649	117.7	(31)	
													117.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 59

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	113	121	105	111	125	117	120	115	112	120	113	113	1385	115			1
2	116	119	119	114	117	112	115	117	123	117	117	118	1404	117			2
3	110	107	113	110	116	115	110	117	121	112	114	108	1353	113			3
4	108	113	110	113	111	113	112	115	121	119	110	120	1365	114			4
5	117	113	121	123	121	114	106	111	124	118	114	115	1397	116			5
6	112	112	114	110	119	119	114	111	119	106	111	118	1365	114			6
7	118	120	112	114	114	113	108	113	115	108	104	114	1353	113			7
8	111	119	119	119	113	115	114	124	111	116	120	101	1382	115			8
9	111	109	117	121	119	117	112	116	117	110	112	108	1369	114			9
10	114	121	119	106	116	116	118	115	115	108	116	112	1376	115			10
11	115	118	118	111	118	121	109	112	105	115	109	116	1367	114			11
12	114	114	120	118	114	120	118	121	124	111	109	115	1398	116			12
13	116	122	119	128	120	135	116	118	122	112	122	120	1450	121			13
14	118	115	121	117	121	122	120	120	124	118	114	125	1435	120			14
15	133	115	121	127	122	130	125	119	119	125	126	117	1479	123			15
16	125	128	118	126	128	119	133	128	116	124	120	119	1484	124			16
17	110	112	120	116	121	124	129	120	126	121	118		(1317)	(120)[11]			17
18						123	125	122	116	118	117	115	(836)	(120)[7]			18
19	121	127	111	124	122	117	121	118	116	114	116	118	1425	119			19
20	115	115	119	109	114	110	116	120	112	114	116	117	1377	115			20
21	124	117	115	115	113	116	116	123	113	113	119	110	1394	116			21
22	116	119	115	128	122	125	119	119	117	123	119	110	1432	119			22
23	124	113	123	123	120	120	110	105	123	114	121	117	1413	118			23
24	110	122	124	129	121	117	117	122	129	119	115	112	1437	120			24
25	113	121	118	123	121	122	122	124	126	121	116	117	1444	120			25
26	117	119	115	112	114	130	124	114	125	114	106	115	1405	117			26
27	116	115	113	112	123	119	114	112	113	107	111	110	1365	114			27
28	108	110	117	114	114	116	121	115	119	120	118	109	1381	115			28
29	115	125	115	122	108	115	116	112	116	120	110	112	1386	116			29
30	114	120	117	120	113	121	125	117	105	114	114	115	1395	116			30
31																	31
Sum	3244	3289	3268	3299	3299	3326	3271	3273	3302	3232	3212	3201	39216	3269	116.8	(28)	
Mean	115.9	117.5	116.7	117.9	117.9	118.8	116.8	116.9	118.0	115.4	114.7	114.3	1400.8	3509	117.0	(30)	
													116.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 60

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1950

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	117	120	120	122	114	114	111	114	124	122	121	113	1412	118			1
2	114	110	121	119	115	119	111	108	117	115	110	115	1374	114			2
3	108	122	125	118	109	121	116	109	115	114	120	115	1392	116			3
4	122	122	123	116	116	109	114	115	122	115	116	122	1412	118			4
5	105	123	112	120	113	120	114	120	116	117	116	117	1393	116			5
6	118	115	114	110	118	119	115	121	113	114	116	119	1392	116			6
7	111	116	109	118	116	119	112	107	124	108	113	119	1372	114			7
8	111	112	113	124	124	116	121	116	108	113	111	123	1392	116			8
9	109	120	115	120	117	127	123	122	114	113	119	118	1417	118			9
10	113	107	118	120	118	114	117	121	123	125	115	109	1400	118			10
11	108	107	113	112	121	108	117	115	119	118	110	109	1357	113			11
12	108	115	110	112	111	108	102	103	115	118	110	108	1320	110			12
13	114	119	107	110	106	107	106	97	105	102	102	101	1276	106			13
14	103	111	101	107									(422)	(106)[4]			14
15																	15
16							108	114	109	120	112	118	(681)	(114)[6]			16
17	116	113	111	113	122	118	111	112	123	116	122	120	1397	116			17
18	118	120	125	124	117	123	123	121	123	122	116	114	1446	120			18
19	119	122	114	115	113	120	120	126	123	120	122	112	1426	119			19
20	121	117	118	126	119	121	117	120	129	118	117	127	1450	121			20
21	115	118	122	125	117	121	122	121	124	121	128	120	1454	121			21
22	118	124	125	123	114	127	129	125	127	118	121	125	1476	123			22
23	119	111	120	120	121	124	118	113	108	118	117	102	1391	116			23
24	116	113	103	107	111	112	111	109	117	115	108	100	1322	110			24
25	109	107	109	110	106	100	112	105	109	108	109	112	1296	108			25
26	106	116	114	110	112	107	112	106	117	111	120	108	1339	112			26
27	113	114	114	111	125	126	114	111	105	111	110	114	1368	114			27
28	110	110	114	107	114	118	111	120	115	117	116	115	1367	114			28
29	119	111	117	109	115	111				122	124	109	(1037)	(115)[9]			29
30	114	118	120	116	120	115	111	120	121	118	115	113	1401	117			30
31	117	114	111	117	122	119	121	116	110	113	110	119	1389	116			31
Sum	3069	3125	3120	3145	3131	3152	3111	3093	3166	3120	3110	3089	37431				
Mean	113.7	115.6	115.6	116.5	116.0	116.7	115.2	114.6	117.3	115.6	115.2	114.4	1386.4	3120	115.6	(27)	
													115.5	3455	115.2	(30)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 61

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	110	114	114	112	112	115	117	112	114	106	114	115		1355	113			1
2	111	114	118	98	110	108	119	111	122	118	112	102		1343	112			2
3	108	107	108	113	122	120	125	113	114	114	112	104		1360	113			3
4	110	124	119	114	118	113	119	119	112	114	112	105		1379	115			4
5	114	113	115	117	122	117	115	115	118	118	117	123		1404	117			5
6	111	119	118	114	119	120	126	117	114	115	114	118		1405	117			6
7	114	114	122	123	118	120	124	123	120	113	111	116		1418	118			7
8	111	119	112	122	115	121	129	120			122	115		(1186)	(119)[10]			8
9	113	126	112	119	121	123	127	125	118	120	111	117		1432	119			9
10	115	117	129	131	126	116	128	123	114	117	106	108		1430	119			10
11	113	109	115	110	114	118	115	111	113	119	114	107		1358	113			11
12	105	113	114	112	122	113	116	112	112	106	108	112		1345	112			12
13	109	112	116	111	114	118	109	114	111	118	106	113		1351	113			13
14	113	110	118	112	113	113	110	110	117	106	110	114		1346	112			14
15	113	114	110	112	110	114	117	111	114	116	109	106		1346	112			15
16	118	112	117	110	111	115	114	112	116	112	101	115		1353	113			16
17	108	110	105	114	112	119	117	117	112	118	112	114		1358	113			17
18	114	112	124	118	117	113	113	118	113	111	109	111		1373	114			18
19	117	124	119	119	110						115	121		(825)	(118)[7]			19
20	113	114	117	114	116	116	119	120	115	119	113	114		1390	116			20
21	113	116	124	113	110	114	110	108	118	106	111	105		1348	112			21
22	106	112	107	113	120	120	110	119	115	112	114	109		1357	113			22
23	100	117	120	118	111	112	113	112	111	113	108	108		1343	112			23
24	115	109	115	120	120	117	122	113	116	113	112	114		1386	116			24
25	109	112	115	119	114	114	111	116	119	115	118	112		1374	114			25
26	110	121	116	115	124	112	114	113	112					(1037)	(115)[9]			26
27					119	110	108	110	104	117	114	106		(888)	(111)[8]			27
28	100	109	113	108	108	121	112	113	113	106	112	109		1324	110			28
29	107	102	114	109	110	105	106	110	107	114	112	109		1305	109			29
30	101	112	110	106	111	122	115	103	109	115	106	117		1327	111			30
31	111	118	123	119	116	112	.120	118	118	106	117	113		1391	116			31
Sum	2974	3061	3132	3079	3117	3128	3149	3095	3095	3060	3001	3010		36901	3074	113.9	(27)	
Mean	110.1	113.4	116.0	114.0	115.4	115.9	116.6	114.6	114.6	113.3	111.1	111.5		1366.5	3537	114.1	(31)	
														113.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 62

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	109	113	118	120	121	111	121	115	115	110	111	117		1381	115			1
2	113	117	111	116	114	120	121	113	114	123	118	116		1396	116			2
3	116	123	119	119	113	125	123	118	111	115	122	119		1423	119			3
4	119	122	111	120	128	120	119	122	126	116	116	120		1439	120			4
5	115	109	118	113	113	116	123	112	118	112	111	108		1368	114			5
6	108	109	112	116	112	115	122	109	96	108	104	115		1326	110			6
7	101	105	110	116	117	105	105	109	111	112	99	103		1293	108			7
8	109	105	115	108	107	109	109	102	113	111	110	115		1313	109			8
9	107	113	108	110	103	109	103	106	110	116	111	112		1308	109			9
10	100	114	108	115	112	107	100	105	120	115	114	117		1327	111			10
11	113	120	116	120	109	108	106	117	121	108	120	112		1370	114			11
12	112	113	114	120	109	116	105	113	119	114	119	119		1373	114			12
13	117	114	122	125	118	123	115	124	119	111	121	120		1429	119			13
14	120	112	115	120	124	113	121	119	117	126	119	121		1427	119			14
15	128	123	121	117	124	126	126	124	121	120	124	121		1475	123			15
16	121	122	126		128	127	127	130	116	119	121	116		(1353)	(123)[11]			16
17	119	120	127	120	112	123	118	123	128	128	118	122		1458	122			17
18	124	118	121	120	117	120	127	112	114	119	116	117		1425	119			18
19	114	111	105	114	108	120	114	121	112	110	103	109		1341	112			19
20	106	109	106	113	101	116	117	111	120	115	110	112		1336	111			20
21	111	106	107	109	107	103	110	113	113	113	115	103		1310	109			21
22	102	111	109	110	118	116	112	111	112		106	106		(1213)	(110)[11]			22
23	115	105	109	113	110	106	113							(771)	(110)[7]			23
24									108	106	106	106		(426)	(106)[4]			24
25	101	106	116	104	115	110	111	102	109	104	107	117		1302	108			25
26	108	119	115	113	116	110	114	111	108	101	107	106		1328	111			26
27	115	113	114	114	111	116	105	105	109	106	104	105		1317	110			27
28	101	109	113	117	115	113	106	104	111	116	106	111		1322	110			28
29																		29
30																		30
31																		31
Sum	2686	2723	2742	2779	2726	2754	2741	2710	2755	2729	2705	2737		32787	2732	113.8	(24)	
Mean	111.9	113.5	114.3	115.8	113.6	114.8	114.2	112.9	114.8	113.7	112.7	114.0		1366.2	3181	113.6	(28)	
														113.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 63

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	108	110	111	113	111	109	108	113	115	111	103	114	1326	110			1
2	119	111	116	120	120	120	121	106	113	110	120	110	1386	116			2
3	112	111	117	121	115	121	120	118	115	115	111	107	1383	115			3
4	111	112	114	123	120	123	114	117	109	114	116	112	1385	115			4
5	110	118	112	114	116	112	119	112	116	118	117	116	1380	115			5
6	110	112	114	129	121	109	108	110	112	107	112	112	1356	113			6
7	114	118	113	117	120	120	108	106	105	105	108	109	1343	112			7
8	104	112	120	108	118	115	113	102	107	110	106	113	1328	111			8
9	108	116	112	117	112	109	113	118	108	101	104	105	1323	110			9
10	110	106	115	111	105	109	113	107	112	114	110	106	1318	110			10
11	106	110	104	111	111	117	108	112	114	108			(1101)	(110)[10]			11
12						118	114	121	104	111	112	115	(795)	(114)[7]			12
13	111	107	111	110	119	113	116	118	118	107	108	119	1357	113			13
14	118	111	113	121	115	118	116	114	118	116	110	111	1381	115			14
15	116	116	116	121	118	118	110	111	116	114	115	104	1375	115			15
16	111	108	118	117	117	122	125	117	111	107	100	108	1361	113			16
17	109	112	111	112	122	120	121	119	115	114	100	106	1361	113			17
18	115	109	106	113	123	112	122	122	116	119	110	109	1376	115			18
19	114	108	116	107	119	111	122	114	106	117	111	107	1352	113			19
20	109	112	111	118	122	125	117	116	109	120	117	124	1400	117			20
21	119	116	109	109	119	119	121	126	122	118	127	119	1424	119			21
22	127	120	116	115	121	122	125	111	112	111	114	113	1407	117			22
23	112	114	115	113		119	117	128	117	116	105	118	(1274)	(116)[11]			23
24	104	117	109	117	119	115	115	113	122	122	107	111	1371	114			24
25	114	122	119	114	123	113	116	122	112	114	118	109	1396	116			25
26	116	121	118	118	119	124	118	124	118	111	116	120	1423	119			26
27	119	122	116	123	120	124	112	125	121	108	127	122	1439	120			27
28	122	127	126	124	121	122	115	126	112	113	113	119	1440	120			28
29	120	117	121	120	121	123	121	115	118	113	119	111	1419	118			29
30	109	114	126	119	120	129	118	121	116	111	117	109	1409	117			30
31	109	112	105	116	117	121	128	113	113	116	109	107	1366	114			31
Sum	3168	3197	3211	3267	3313	3298	3275	3236	3187	3156	3145	3132	38585	3215	114.8	(28d)	
Mean	113.1	114.2	114.7	116.7	118.3	117.8	117.0	115.6	113.8	112.7	112.3	111.9	1378.1	3555	114.7	(31d)	
													114.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 64

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	113	108	117	123	114	117	107	114	116	112	110	118	1369	114			1
2	111	117	117	119	115	123	116	126	120	113	119	108	1404	117			2
3	112	114	115	110	121	117	115	112	116	108	110	109	1359	113			3
4	112	114	118	119	119	114	119	115	106	122	112	114	1384	115			4
5	116	115	112	116	114	121	114	107	121	125	111	110	1382	115			5
6	113	116	116	114	115	118	114	122	107	111	113	112	1371	114			6
7	107	114	117	115	114	116	118	110	113	110	108	110	1352	113			7
8	110	118	121	109	120	112	111	117	116	109	108	114	1365	114			8
9	111	108	113	117	124	116	111	115	117	113	113	108	1366	114			9
10	115	122	115	130	113	122	122	115	115	112	110	117	1408	117			10
11	111	115	117	118	119	116	113	119	125	110	119	115	1397	116			11
12	121	119	118	117	129	111	120	117	122	125	120	118	1437	120			12
13	116	115	113	115	116	117	128	112	108	103	116	104	1363	114			13
14	103	109	106	110	109	108	106	108	105	110	103	110	1287	107			14
15	107	115	109	105	120	119	113	108	111	103	106	101	1317	110			15
16	100	100	105	118	113	102	112	106	103	107	107	107	1280	107			16
17	109	111	111	109	115	107	113	117	118	109	115	122	1356	113			17
18	107	115	128	118	121	128	111	113	120	113	112	104	1390	116			18
19	116	113	114	110	124	108	116	124	118	109	124	110	1386	116			19
20	117	123	121	120	111	114	113	118	123	120	125	123	1428	119			20
21	120	109	118	128	115	120	110	119	124	122	109	112	1406	117			21
22	116	115	117	129	124	124	117	123	119	121	116	120	1441	120			22
23	122	132	125	124	121	123	123	122	122	125	121	121	1481	123			23
24	120	122	118	119	130	126	128	113	123	119	117	111	1446	120			24
25	118	120	116	123	116	117	110	111	122	112	117	115	1397	117			25
26	121	119	114	115	113	113	120	119	110				(1044)	(116)[9]			26
27											114	113	(227)	(114)[2]			27
28	113	110	118	122	113	117	116	114					(923)	(115)[8]			28
29							119	115	112		118	117	(581)	(116)[5]			29
30	118	118	119	116	122	109	123	114	121	112	123	118	1413	118			30
31																	31
Sum	2941	2997	3016	3051	3074	3025	3003	2997	3031	2955	2964	2931	35985	2999	115.3	(26)	
Mean	113.1	115.3	116.0	117.3	118.2	116.3	115.5	115.3	116.6	113.7	114.0	112.7	1384.0	3460	115.3	(30)	
													115.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 65

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	118	123	118	126	119	114	128	113	121	122	119	122	1443	120			1
2	107	122	110	114	113	110	116	112	112	118	108	107	1349	112			2
3	118	109	115	114	121	114	106	116	113	112	112	111	1361	113			3
4	112	106	121	118	118	125	121	109	112	114	105	109	1370	114			4
5	109	113	119	116	111	117	123	117	105	115	112		(1257)	(113)	11		5
6						107	116	113	112	116	116	112	(792)	(113)	7		6
7	110	118	116	122	113	113	111	110	110	108	112	115	1358	113			7
8	110	121	118	121	119	114	119	113	109				(1044)	(116)	9		8
9																	9
10											114	113	(227)	(114)	2		10
11	112	117	110	121	109	120	114	115	114	113	110	97	1352	113			11
12	115	111	114	107	123	113	117	121	118	107	114	110	1370	114			12
13	111	103	110	118	122	115	119	114	111	117	111	111	1362	114			13
14	111	106	105	108	121	106	116	117	116	114	112	113	1345	112			14
15	106	109	114	112	110	115	112	114	110	109	108	113	1332	111			15
16	107	117	116	115	107	105	114	110	114	113	110	112	1340	112			16
17	112	121	118	121	113	118	119	110	106	112	117	106	1373	114			17
18	110	120	116	125	120	115	120	115	113	118	119	109	1400	117			18
19	113	118	121	121	122	111	109	112	123	115	118	119	1402	117			19
20	121	115	120	125	121	114	117	114	118	116	118	118	1417	118			20
21	125	122	116	112	116	115	122	125	116	122	123	124	1438	120			21
22	125	117	114	113	125	114	106	116	119	114	107	110	1380	115			22
23	113	113	122	119	108	123	116	113	111	108	106	101	1353	113			23
24	103	99	105	101	107	103	101	104	102	106	103	102	1236	103			24
25	104	97	110	107	112	114	107	113	103	106	96	98	1267	106			25
26	89	103	109	109	106	104	100	107	109	119	106	114	1275	106			26
27	104	112	107	107	105	108	113	117	104	106	111	99	1293	108			27
28	108	119	115	110	110	107	99	102	116	101	106	108	1301	108			28
29	115	105	116	107	114	116	108	111	114	112	106	101	1325	110			29
30	106	117	120	120	108	126	120	118	115	105	111	117	1383	115			30
31	111	117	117	107	115	112	129	112	105	120	111	110	1366	114			31
Sum	2886	2936	2975	2979	2978	2950	2960	2940	2925	2927	2879	2856	35191	2932	112.8	(26)	
Mean	111.0	112.9	114.4	114.6	114.5	113.5	113.8	113.1	112.5	112.6	110.7	109.8	13534	3388	112.9	(30)	
													112.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 66

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	98	105	110	108	111	112	113	114	115	108	112	113	1319	110			1
2	116	102	121	116	115	114	110	114	119	118	116	117	1378	115			2
3	108	121	123	117	113	117	117	111	112	109	109	108	1365	114			3
4	114	113	118	111	109	108	124	110	116	111	110	114	1358	113			4
5	117	119	110	111	113	117	120	110	114	117	119	116	1383	115			5
6	116	119	114	115	113	113	113	122	116	115	118	113	1387	116			6
7	122	112	118	115	124	107	118	107	113	116	111	116	1379	115			7
8	119	112	118	117	116	119	116	118	112	117	103	117	1384	115			8
9	112	108	112	108	117	119	127	120	130	113	108	127	1401	117			9
10	105	109	117	131	124	115	124	115	120	107	110	114	1391	116			10
11	111	107	119	116	124	111	105	117	113	114	116	107	1360	113			11
12	106	116	112	110	110	108	118	114	110	111	116	113	1344	112			12
13	108	111	116	118	112	119	110	110	108	112	107	113	1344	112			13
14	108	110	110	111	106	108	112	114	95	93	93	85	1245	104			14
15	81	92	94	92	86	91	90	97	95	96	93	90	1097	91			15
16	86	89	93	94	95	95	91	88	95	98	96	90	1110	92			16
17	90	88	91	91	95	100	86	83	90	90	90	95	1089	91			17
18	91	97	82	80	95	82	91	100	95	97	82	73	1065	89			18
19	77	90	83	91	92	91	95	94	92	89	92	89	1075	90			19
20	87	91	89	87	100	93	88	93	94	90	95	94	1101	92			20
21	98	98	86	93		101	100	99	99	100	101	104	(1079)	(98)	11		21
22	101	110	101	103		99	101	98			104	104	(921)	(102)	9		22
23	105	109	111	108	95	105	95	100	106	98	105	107	1244	104			23
24	114	114	110	115	115	113	111	102	111	117	103	117	1342	112			24
25	109	107	115	115	109	108	109	109	100	112	113	110	1316	110			25
26	105	111	118	111	128			113	122	120	116	114	(1158)	(116)	10		26
27	119	114	120	116	115	111	106	121	112	114	111	115	1374	114			27
28	118	116	113	113	111	115	111	115	115	113	113	110	1363	114			28
29	114	118	112	108	119	111	110	112	115	109	115	108	1351	113			29
30	111	113	120	118	121	110	117	115	113	111	107	112	1368	114			30
31																	31
Sum	2862	2902	2951	2932	2955	2912	2927	2925	2926	2895	2863	2883	34933	2913	107.9	(27)	
Mean	106.0	107.5	109.3	108.6	109.4	107.9	108.4	108.3	108.4	107.2	106.0	106.8	1293.8	3232	107.7	(30)	
													107.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 67

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	109	104	112	108	119	120	119	121	114	118	119	112	1375	115			1
2	125	115	119	115	114	121	119	113	110	114	104	105	1374	114			2
3	117	109	119	115	110	114	121	112	121	107	110	110	1365	114			3
4	108	115	112	114	117	121	117	120	111	113	106	121	1375	115			4
5	117	109	112	121	112	113	111	120	127	117	112	110	1381	115			5
6	117	123	109	123	116	115	118	119	111	117	111	120	1399	117			6
7	123	116	120	119	132	122	123	119	122	122	114	114	1446	120			7
8	115	128	122	128	120	119	120	120	121	121	125	118	1457	121			8
9	117	118	114	120	121	115	114	117	120	116	111	109	1392	116			9
10	115	112	113	112	115	106	126	111	114	123	117	116	1380	115			10
11	108	115	112	113	120		117	121			118	114	(1038)	(115)^{9}			11
12	112	120	114	111	110	115	116	115	116	113	116	116	1374	114			12
13	115	107	120	118	120	115	123	127	122	116	120	112	1415	118			13
14	121	114	122	115	110	117	120	112	118	114	112	115	1390	116			14
15	112	114	122	120	112	115	123	121	115	108	110	116	1388	116			15
16	123	115	113	119	120	117	104	110	113	113	106	109	1362	114			16
17	116	113	112	112	114	113	112	109	118	110			(1129)	(113)^{10}			17
18							123	112	119	112	114	107	(687)	(114)^{6}			18
19	119	120	109	114	110	113	110	114	112	106	117	109	1353	113			19
20	112	108	118	112	110	110	110	107	106	106	116	105	1320	110			20
21	107	110	116	112	113	110	104	112	105	105	108	109	1311	109			21
22	115	109	123	108	108	105	107	107	103	112	102	102	1301	108			22
23	107	101	111	112	102	110	104	111	107	112	111		(1188)	(108)^{11}			23
24	107		108							114	118	108	(555)	(111)^{5}			24
25	110	110	110	117	118	110	115	106	106	110	113	106	1331	111			25
26	109	117	116	121		111		109	115	119	128	122	(1167)	(117)^{10}			26
27	115	115	115	118	109	110	109	110	111	119	113	112	1356	113			27
28	119	110	119	108	117	106	102	111	108	118	111	109	1338	112			28
29	105	104	104	106	105	97	101	88	92	92	96	107	1197	100			29
30	103	105	105	104	103	103	100	95	104	93	98	112	1225	102			30
31	113	112	108		117	111	104	106	96	100	97	106	(1170)	(106)^{11}			31
Sum	2751	2710	2762	2757	2741	2709	2732	2707	2702	2693	2667	2674	32605	2718	1133	(24)	
Mean	114.6	112.9	115.1	114.9	114.2	1129	113.8	112.8	112.6	112.2	111.1	111.4	1358.5	3502	113.0	(31)	
													1132				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 68

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	108	119	123	105	109	112	103	102	111	111	111	103	1317	110			1
2	117	113	115	122	119	109	112	108	111	120	105	96	1347	112			2
3	112	113	111	112	116	117	120	106	115	105	107	115	1349	112			3
4	110	111	113	113	112	118	128	111	115	109	119	110	1369	114			4
5	114	119	113	110	114	117	110	122	122	117	117	110	1385	115			5
6	110	109	110	117	116	119	104	122	116	114	114	113	1364	114			6
7	119	118	116	114	115	121	125	106	119	116	115	106	1390	116			7
8	118	121	118	119	126	120	114	116	113	119	124	118	1426	119			8
9	121	116	116	117	121	120	119	115	109	110	109	114	1387	116			9
10	118	114	109	118	126	117	115	111	112	124	109	112	1385	115			10
11	116	109	122	117	116	119	112	113	123	112	111	113	1383	115			11
12	112	115	112	118	115	119	113	113	114	109	105	105	1350	112			12
13	107	105	99	108	104	101	95	96	100	93	96	95	1199	100			13
14	97	99	103	98	98	101	99	98	97	94	99	102	1185	99			14
15	102	104	100	101	105	103	104	104	98	94	104	100	1219	102			15
16	93	99	101	109	104	108	99	98	101	91	84	85	1172	98			16
17	95	101	107	104	104	103	94	101	89	95	107	100	1200	100			17
18	99	106	110	111	105	110	90	101	106	107	104	105	1254	104			18
19	103	108	112	113	105	108	105	103	97	106	106	106	1272	106			19
20	106	108	108	113	104	101	108	104	101	107	100	107	1267	106			20
21	101	111	108	101	109	114	119	112	113	102	99	114	1303	109			21
22	108	104	114	106	105	105	109	107	109	108	103	105	1283	107			22
23	103	106	115	112	120	103	114	104	111	110	116	112	1326	110			23
24	114	117	117	123	116	109	109	112					(917)	(115)^{8}			24
25	100	109	116	120	111	111	111	109	105	112	122	110	1336	111			25
26	112	112	125	113	104	117	115	117	111	110	116	118	1370	114			26
27	125	118	116	121	111	113	117	113			103	113	(1150)	(115)^{10}			27
28	115	121			118	116	120	120	122	121			(953)	(119)^{8}			28
29																	29
30									115	112	112	111	(450)	(112)^{4}			30
31	118	113	111	112	125	122	121	121	123	105	106	94	1371	114			31
Sum	2819	2862	2907	2903	2908	2915	2858	2820	2841	2800	2808	2768	34209	2850	109.6	(26)	
Mean	1084	110.3	111.9	111.7	111.8	112.1	109.9	108.5	109.3	107.7	108.0	106.5	1315.9	3311	110.4	(30)	
													109.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 69

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	98	106	109	107	117	128	126	121	113	112	117	111		1365	114			1
2	109	124	122	125	118						114	108		(820)	(117)[7]			2
3	109	114	115	118	118	119	109	122	115	106	116	117		1378	115			3
4	112	117	122	118	112	117	108	109	116	109	112	115		1367	114			4
5	120	119	118	118	118	126	115	119	115	120	124	122		1434	120			5
6	110	112	111	107	111	116	106	105	114	119	112	110		1333	111			6
7	108	105	115	117	110	105	112	114	113	105	110	107		1321	110			7
8	104	111	115	116	116	116	117	114	123	112	110	112		1366	114			8
9	107	110	110	122	115	112	115	113	108	109	108	111		1340	112			9
10	112	108	107	113	111	107	120	119	110	106	110	103		1326	110			10
11	117	122	112	113	123	109	110	123	114	109	118	114		1384	115			11
12	111	113	114	108	112	118	116	115	112	113	112	106		1350	112			12
13	119	112	116	112	111	106	105	99	107	112	107	99		1305	109			13
14	102	98	98	108	105	101	100	106	102	103	109	104		1236	103			14
15	105	110	108	113	99	113	105	107	104	106	105	100		1275	106			15
16	105	106	111	111	116	113	109	106	108	103	101	109		1298	108			16
17	106	113	106	111	111	111	111	107	101	104	102	100		1283	107			17
18	103	111	111	113	113	119	112	103	101	98	111	108		1303	109			18
19	110	108	109	110	115	105	115	115	111	116	108	117		1339	112			19
20	107	113	102	120	111	120	108	117	118	107	113	109		1345	112			20
21	110	107	117	118	112	119	110	113	113	112	120	110		1361	113			21
22	115	109	119	114	117	104	113	113	120	110	111	118		1363	114			22
23	126	120	128	109	118	115	104	109	107	103	112	104		1355	113			23
24	121	109	103	120			112	114	118	106	108	109		(1120)	(112)[10]			24
25	98	110	112	108	108	111	117	111	111	116	108	121		1331	111			25
26	120	111	110	119	108	122	128	118	116	110	116	113		1391	116			26
27	107	115	115	118	117	126	116	116	116	113	112	109		1380	115			27
28	104	110	111	117	117	115	111	119	110	120	110	114		1358	113			28
29	114	113	113	119	112	108	112	122	116	116	119	116		1380	115			29
30	112	114	121	126	117	115	118	120	121	119	107	120		1410	118			30
31																		31
Sum	3071	3117	3155	3203	3170	3196	3148	3175	3135	3088	3120	3099		37677	3141	112.2	(28)	
Mean	109.7	111.3	112.7	114.4	113.2	114.1	112.4	113.5	112.0	110.3	111.4	110.7		1345.7	3370	112.3	(30)	
														112.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 70

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	114	120	119	114	117	122	116	126	117	114	118	116		1413	118			1
2	118	120	117	121	124	118	124	132	134	126	121	115		1470	122			2
3	121	134	121	121	117	123	123	125	124	138	124	122		1493	124			3
4	126	131	120	113	130	121	121	126	122	122	123	123		1478	123			4
5	126	129	123	127	123	113	126	120	121	133	136	127		1504	125			5
6	126	122	125	125	123	136	129	120	128	123	120	99		1476	123			6
7	122	125	121	126	127	126	115	129	131	114	111	116		1463	121			7
8	112	121	114	115	117	115	118	123	110	112	107	118		1382	115			8
9	112	114	113	116	113	126	125	121	119	113	116	118		1406	117			9
10	118	120	123	125	114	115	106	112	101	102	105	110		1351	113			10
11	113	115	114	109	107	113	114	112	114	106	105	102		1324	110			11
12	112	106	101	104	108	106	114	119			104	104		(1078)	(108)[10]			12
13	109	115			110	110	113	111	109	107	107	106		(1097)	(110)[10]			13
14	113	105	117	109	114	104	119	116	108	108	112	112		1337	111			14
15	113	109	115	116	116	125	111	109	111	112	108	116		1361	113			15
16	111	116	104	111	114	118	118	123	113	109	104	115		1356	113			16
17	110	110	112	109	115	110	106	108	108	96	106	112		1302	108			17
18	110	114	119	126	117	109	122	114	101	112	112	115		1371	114			18
19	112	115	120	115	116	114	121	108	114	110	113	120		1378	115			19
20	116	112	121	117	114	112	119	114	120	116	120	120		1401	117			20
21	115	116	124	123	122	117	125	119	119	115	118	118		1431	119			21
22	126	118	117	116	122	125	119	115	117	116	120	117		1428	119			22
23	116	114	119	134	118	122					128	123		(974)	(122)[8]			23
24	119	115	125	132			126	131	124	118	128	114		(1232)	(123)[10]			24
25	130	121	124	137	127	128	114	125	124	110	115	112		1467	122			25
26	109	114	112	116	122	128	123	122	120	109	112	119		1406	117			26
27	102	109	119	118	121	119	121	118	121	104	103	114		1369	114			27
28	121	112	114	117	114	100	107	114	100	113	106	115		1333	111			28
29	107	107	117	117	115	116	114	115	113	100	113	106		1342	112			29
30	113	108	110	114	110	114	116	122	110	114	114	110		1355	113			30
31	119	119	120	122	115	107	116	111	118	114	115	108		1384	115			31
Sum	3135	3156	3175	3197	3186	3174	3188	3199	3138	3061	3077	3095		37781	3144	116.4	(27 days)	
Mean	116.1	116.9	117.6	118.4	118.0	117.6	118.1	118.5	116.2	113.4	114.0	114.6		1399.4	3607	116.4	(31 days)	
														116.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 71

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	117	115	115	111	114	113	113	109	110	108	118	116	1359	113			1
2	110	115	109	111					115				(560)	(112)^{5}			2
3						110					109	115	(334)	(111)^{3}			3
4	127	111	114	117	113	110	120	115	109	99	103	114	1352	113			4
5			108	112	112	109	108	112	113	111	106	101	(1092)	(109)^{10}			5
6	106	109	107	106	105	108	111	115	106	117	109	107	1306	109			6
7	112	112	114	106	107	112	106	113	113	103	105	103	1306	109			7
8	100	100	110	104	110	114	109	107	103	105	105	107	1274	106			8
9	107	107	107	113	111	103	101	104	110	100	103	95	1261	105			9
10	100	101	104	111	108	108	102	104	104				(942)	(105)^{9}			10
11											106	92	(198)	(99)^{2}			11
12	102	107	108	105	108	109	112	108	112	98	104	112	1285	107			12
13	109	106	110	104	110	108	115	109			111	121	(1103)	(110)^{10}			13
14	114	117	110								111	115	(567)	(113)^{5}			14
15	108	103	112	118	108	116	104	113	110	107	102	111	1312	109			15
16	116	116	118	119	113	114	114	111	107	105	108	111	1352	113			16
17	117	112	108	119			106	114	117	113	117	110	(1133)	(113)^{10}			17
18	113	114	111	124	107	113	116	117	114	109	115	114	1367	114			18
19	106	114	127	118	125	129	118	119	126	119	113	113	1427	119			19
20	107	107	119	116	115	115	111	113	115	110	113	110	1351	113			20
21	109	110	106	110	111	111	113	101	106	108	94	98	1277	106			21
22	101	107	110	107	115	127	109	112	114	109	106	107	1324	110			22
23	107	108	111	105	115	108	117	113	110	116	107	108	1325	110			23
24	115	117	118	112	109	112	114	109	109	100	104	107	1326	110			24
25	115	105	116	107	107	117	113						(780)	(111)^{7}			25
26						119	117	113	118	119	119	115	(820)	(117)^{7}			26
27	116	109	116	115	123	121	124	116	115	118	116	113	1402	117			27
28	120	121	126	134	121	125	125	123	120	117	119	120	1471	123			28
29	125	121	120	126	120	110	118	116	122	123	116	115	1432	119			29
30	116	116	114	116						117	109	115	(803)	(115)^{7}			30
31																	31
Sum	2114	2108	2169	2166	2150	2170	2155	2134	2131	2071	2060	2081	25509	2125	111.8	(19 days)	
Mean	111.3	110.9	114.2	114.0	113.2	114.2	113.4	112.3	112.2	109.0	108.4	109.5	1342.6	3340	111.3	(30 days)	
													111.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 72

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1951

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	120	128	118	120	121	121	111	121	122	114	114	114	1424	119			1
2	113	116	118	111	120	119	120	116	115	122	111	125	1406	117			2
3	124	116	123	123	115	117	115						(833)	(119)^{7}			3
4	118	122									122	108	(470)	(118)^{4}			4
5	112	117	117	119					118	114	113	118	(928)	(116)^{8}			5
6	114		112	121			116	113	114	109	112	113	(1024)	(113)^{9}			6
7	118	116	117	115									(466)	(116)^{4}			7
8																	8
9																	9
10																	10
11																	11
12							114	107	106				(327)	(109)^{3}			12
13											106	111	(217)	(108)^{2}			13
14	111	123	115	123							112	108	(692)	(115)^{6}			14
15	115	115	118										(348)	(116)^{3}			15
16																	16
17							112	118	106	112	108	110	(666)	(111)^{6}			17
18	107	115	111	116	112	116	125	124	111	110	118	113	1378	115			18
19	120	119	121	130	114	115	115	121	119	113	121	115	1423	119			19
20	118	115	117	111	119	112	114				108	116	(1030)	(114)^{9}			20
21	112	116	111	125	119	113	119	114	125	118	107	119	1398	116			21
22	118	124	129	121	120	114	107	113	105	114	113	115	1393	116			22
23	117	120	117	116	128	112	112	110	117	115	110	117	1391	116			23
24	105	108	112	113	118	113	117	116	124	122	122	109	1379	115			24
25	113	124	112	118	120	114	120	114	130	117	112	125	1419	118			25
26	124	117	119	122	125	135	119	120	128	117	121	129	1476	123			26
27	118	122	133	128	124	119	112	115	119	114	105	103	1412	118			27
28	111	111	118	125	106	115	109	116	110	107	106	104	1338	112			28
29	92	94	110	113	117	120	109	114	108	110	103	102	1292	108			29
30	100	101	97	103							105	111	(617)	(103)^{6}			30
31	111	112	113	113	116	119	111	110	115	114	109	107	1350	112			31
Sum	1581	1626	1642	1671	1660	1645	1606	1624	1648	1607	1572	1597	19479	1624	116.0	(14 days)	
Mean	112.9	116.1	117.3	119.4	118.6	117.5	114.7	116.0	117.7	114.8	112.3	114.1	1391.4	2985	114.8	(26 days)	
													116.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 73

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	106	124	121	119							113	111	(694)	(116)	6	1
2	108	118	118	122	117	118	120	125	114	110	106	112	1388	116		2
3	103	123	118	118	119	117	122	111	121	114	117	109	1392	116		3
4	117	116	115	122	122	120	119	127	119	112	122	115	1426	119		4
5	129	121	117	115	119	120	116	118	124	116	116	114	1425	119		5
6	117	119	108	116	119	114	117	115	120	118	112	115	1390	116		6
7	108	113	112	107	114	116	113	115	114	118	107	114	1351	113		7
8	112	112	113	119	114	121	114	120	113	106	116	118	1378	115		8
9	111	116	112	118	113	114	122	112			102	110	(1130)	(113)	10	9
10	112	110	108	116	117	111	105	103	120	125	114	109	1350	112		10
11	106	106	109	111	113	115	115	112	111	108	103	98	1307	109		11
12	110	104	107	103	106	112	109	114	104	106	103	107	1285	107		12
13	108	112	113	103	113	112	119	116	106	115	118	99	1334	111		13
14	103	106	103	115	108	114	113	106	100	108	100	100	1276	106		14
15	104	108	107	107	101	110	118	109	102	108	110	108	1292	108		15
16	99	103	104	104	105	101	98	110	103	104	111	110	1252	104		16
17	109	112	114	112	111	106	109	111	113	104	111	109	1321	110		17
18	116	112	117	116	120	109	119	105	116	113	112	117	1372	114		18
19	114	122	119	109	112	115	116	117	118	111	118	111	1382	115		19
20	121	126	117	111	106	119	116	116	113	117	116	123	1401	117		20
21	124	117	121	116	126	115	113	117	119	117	116	115	1416	118		21
22	115	119	118	113	112	125	118	117	125	123	119	119	1423	119		22
23	120	113	113	121	111	122	125	120	119	122	120	112	1418	118		23
24	106	115	116	113	114						115	114	(793)	(113)	7	24
25	112	121	115	116	113	113	114	117	118	118	115	109	1381	115		25
26	111	104	114	99	126	111	110	109	107	101	102	101	1295	108		26
27	109	113	108	111	103	113	106	110	103	111	104	106	1297	108		27
28	105	103	101	105	106	105	105	104	109	106	110	116	1275	106		28
29	109	114	106	107	110	114	113	109	110	110	112	108	1322	110		29
30	111	105	116		111	106	112	107	105	112	103	109	(1197)	(109)	11	30
31	114	105	111	103	114	111	108	110	112	107	103	116	1314	110		31
Sum	3015	3052	3026	3017	3057	3079	3070	3063	3053	3028	3013	2990	36463	3039	112.6 (27days)	
Mean	111.7	113.0	112.1	111.7	113.2	114.0	113.7	113.4	113.1	112.1	111.6	110.7	1350.3	3490	112.6 (31 days)	
													112.5			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 74

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	106	112	111	111	107	112	106	110	103	105	106	103	1291	108		1
2	111	112	108	109	110	112	105	111	112	113	106	109	1318	110		2
3	115	105	109	110	115	116	109	113	110	108	103	100	1313	109		3
4	101	104	113	115	108	114	110	112	111	103	107	106	1304	109		4
5	110	113	113	116	112	113	111	116	109		102	106	(1221)	(111)	11	5
6	100	102	114	114	111	110	117	113	127	113	105	97	1323	110		6
7	122	115	115	111	111	118	117	112			103	111	(1135)	(114)	10	7
8	96	98	108	103	108	113	110	108	114	103	104	106	1271	106		8
9	100	103	108	105	101	111	110	105	106	107	109	107	1272	106		9
10	108	105	110	109	108	111	110	111	113	110	108	110	1313	109		10
11	109	113	108	107	111	107	106	109	107	113	108	111	1309	109		11
12	111	105	109	111	111	104	105	118	115	110	113	115	1327	111		12
13	110	121	104	113	113	108	108	113	117	109	114	110	1340	112		13
14	112	106	120	121	112	109	115	110	117	119	108	119	1368	114		14
15	114	116	115	112	117	112	116	112	110	114	115	116	1369	114		15
16	119	120	126	116	119	118	117	123	107				(1065)	(118)	9	16
17																17
18																18
19						116	122	116	115	120			(589)	(118)	5	19
20					115	111	123	113	122	110	117	113	(924)	(116)	8	20
21	118	123	115	119	121	125	124	118	118	114	113	114	1422	119		21
22	111	115	113	128	120	124	118	123	126	112	116	116	1422	119		22
23	120	119	124	126	120	123	113	115	122	116	120	130	1448	121		23
24	118	118	117	117	118	122	129	122	120	121	119	120	1441	120		24
25	115	120	120	116	124	117	118	116	126	119	117	122	1430	119		25
26	115	119	117	116	123	112	125	112	116	116	119	111	1401	118		26
27	110	110	113	116	117	123	122	117	116	113	107	101	1365	114		27
28	108	116	107	115	112	112	114	120	116	113	110	108	1351	113		28
29	115	119	112	113	118	121	123	117	115	119	113	110	1395	116		29
30																30
31																31
Sum	2423	2461	2475	2506	2505	2518	2513	2505	2537	2470	2439	2441	29793	2486	113.0 (22 days)	
Mean	110.1	111.9	112.5	113.9	113.9	1145	1142	113.9	115.3	112.3	1109	111.0	13544	2563	113.4 (27 days)	
													112.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 75

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	108	118	115	115	114	112	120	112	115	106	113	109	1357	113			1
2	109	115	120	118	119	113	115	114	114	112	109	114	1372	114			2
3	113	116	112	109	111	115	109	117	118	117	106	110	1353	113			3
4	119	115	125	113	120	122	121	116	110	109	105	108	1383	115			4
5	110	113	107	113	112	124	111	108	102	114	101	105	1320	110			5
6	114	102	105	106	97	95	101	103	98	105	100	99	1225	102			6
7	101	104	103	96	96	92	95	99	107	105	105	98	1201	100			7
8	110	107	101	113	105	101	99	99	98	106	109	104	1252	104			8
9	107	105	108	97	108	102	97	110	98	107	107	107	1253	104			9
10	109	114	109	110	111	107	109	108	111	104	105	109	1306	109			10
11	103	110	107	113	104	112	112	110	112	113	114	107	1317	110			11
12				112	115		121	113	109	113	114	112	(909)	(114) [8]			12
13	121	106	123	113	122	123		106	126	113	125	111	(1289)	(117) [11]			13
14	118	124	119	123	118	120	120	115	112	119	128	132	1448	121			14
15	122	118	120	120	120	118	118	121	116	117	116	118	1424	119			15
16	114	115	122	112	121	122	124	123	116	113	110	113	1405	117			16
17	108	108	112	122	117	116	119		115	112	109	112	(1250)	(114) [11]			17
18	112	110	120	122	112	114	127				115	114	(1046)	(116) [9]			18
19	118	120	111	110	120	114	122	111	116	109	115	121	1387	116			19
20	113	116	111	118	118	118	120	110	115	110	114	106	1369	114			20
21	112	114	116	120	122	113			112	114	113	110	(1146)	(115) [10]			21
22	117	118	116	124	123	127	113	116	110	110	111	104	1389	116			22
23	112	118	124	123	120	121	113	121	109	112	111	114	1398	116			23
24	114	110	118	113	117	119	117	113	109	116	118	107	1371	114			24
25	119	121	122	119	129						115	112	(837)	(120) [7]			25
26	119	121	118	125	119	124	130	119	116	118	118	115	1442	120			26
27	114	111	122	117	126	116	118	117	117	109	105	125	1397	116			27
28	114	119	113	118	113	121	108	110	116	116	112	126	1386	116			28
29	120	118	121	122	108	111	111	109	116	119	108	119	1382	115			29
30	116	114	117	119	114	119	107	119	116	109	108	112	1370	114			30
31	111	121	110	117	114	116	114	111	114	110	106	110	1354	113			31
Sum	2825	2862	2854	2864	2848	2861	2824	2811	2781	2785	2754	2792	33861	2821	112.8	(25days)	
Mean	113.0	114.5	114.2	114.6	113.9	114.4	113.0	112.4	111.2	111.4	110.2	111.7	1354.4	3517	113.5	(31days)	
													1129				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 76

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	113	115	114	121	116	124	110	114	114	109	111	114	1375	115			1
2	112	113	109	111	113	109	115	108	107	107	106	100	1310	109			2
3	106	107	115	105	109	115	108	102	108	110	107	109	1301	108			3
4	110	103	122	112	118	119	117	113	113	109	109	110	1355	113			4
5	111	120	109	113	109	101	106	115	117	119	114	102	1336	111			5
6	113	109	113	114	115	115	117	114	110	108	111	108	1347	112			6
7	116	114	120	119	110	111	101	115	102	117	121	107	1353	113			7
8	119	109	110	122	113	114	106	115	110	122	120	117	1377	115			8
9	106	121	122	118	117	117	116	112	115	118	112	118	1392	116			9
10	111	118	117	117	121	111	110	114	113	117	108	114	1371	114			10
11	123	114	119	119	114	123	118	120	116	118	113	119	1416	118			11
12	122	120	120	121	119	121	121	111	110	112	114	114	1405	117			12
13	115	115	113	123	117	122	120	108	112	112	112	111	1380	115			13
14	106	111	118	118	118	120	117	[		]	108	112	(1028)	(114) [9]			14
15	116	116	113	116	122	117	119	120	127	107	111	118	1402	117			15
16	116	116	120	120	122	124	112	116	111	119	118	113	1407	117			16
17	116	122	118	120	115	112	122	122	123	112	120	111	1413	118			17
18	117	121	121	116	117	120	125	113	120	126	120	118	1434	120			18
19	112	113	113	127	119	111	117	118	116	[	]	119	(1165)	(116) [10]			19
20	118	117	130	120	125	115	118	125	121	118	120	122	1449	121			20
21	119	125	116	120	120	119	121	123	113	119	109	116	1420	118			21
22	111	120	117	119	120	121	128	[		]	112	105	(1053)	(117) [9]			22
23	103	120	111	112	119	115	123	124	114	122	109	110	1382	115			23
24	115	117	117	105	123	120	119	117	116	123	117	119	1408	117			24
25	120	110	117	120	109	120	116	125	117	113	106	119	1392	116			25
26	119	118	116	120	115	111	113	123	115	111	115	110	1386	116			26
27	107	120	112	114	121	114	104	114	118	114	105	112	1355	113			27
28	112	111	111	111	114	115	106	106	103	103	97	101	1290	108			28
29	99	97	100	109	113	100	103	106	115	108	104	106	1260	105			29
30	102	104	105	101	105	105	106	102	104	94	109	102	1239	103			30
31																	31
Sum	3056	3092	3110	3119	3131	3109	3072	3097	3064	3067	3018	3020	36955	3080	114.1	(27)	
Mean	113.2	114.5	115.2	115.5	116.0	115.1	113.8	114.7	113.5	113.6	111.8	111.9	1368.8	3427	114.2	(30)	
													114.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 77

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	94	101	108	106	94	95	96	102	112	106	102	102		1218	102			1
2	101	105	104	108	112	108	102	102	104	102	101	103		1252	104			2
3	108	103	109	109	109	104	104	101	99	102	109	104		1261	105			3
4	110	104	111	100	105	106	104	109	101	100	106	106		1262	105			4
5	112	107	115	110	110	105	105	102	106	99	105	95		1271	106			5
6	108	106	102	112	105	112	104	107	104	108	110	104		1282	107			6
7	117	112	116	117	108	104	111	113	105	115				(1118)	(112)	10		7
8					126	113	110	116	106	97	107	106		(881)	(110)	8		8
9	110	109	117	118	120	114	105	108	115	110	107	115		1348	112			9
10	108	118	124	119	111	125	120	130	114	112	110	110		1401	117			10
11	121	113	119	114	131	118	126	129	116	110	107	107		1411	118			11
12	112	121	118	118	118	117	119							(823)	(118)	7		12
13																		13
14						118	119	116	113	112	119	113		(810)	(116)	7		14
15	121	119	134	104	123	121	120	119	119	120	113	115		1428	119			15
16	113	112	125	122	119	116	121	115	123	113	128	129		1436	120			16
17	131	127			122	126	123	125	131	119	125	122		(1251)	(125)	10		17
18	125	123	130	129	123	124	127	116	124	116	116	114		1467	122			18
19	117	129	128	134	124	122	135	123	119	127	126	126		1510	126			19
20	126	136	127	131	133	123	125	122	118	125	117	124		1507	126			20
21	124	119	122	120	128	130	125	130	125	127	115	120		1485	124			21
22	134	138	134	125	126	125	128	130	127	135	127	129		1557	130			22
23	129	132	122	129	123	126	129	125	123	130	117	128		1513	126			23
24	129	132	131	115	120	120	128	132	124	117	128	117		1493	124			24
25	117	123	137	132	133	114	119	124	118	112	116	115		1460	121			25
26	118	119	116	121	115	115	117	111	119	118	115	116		1400	117			26
27	111	122	117	123	112	118	113	117	119	111	107	110		1380	115			27
28	112	108	116	105	109	108	112	108	114	115	110	104		1321	110			28
29	113	111	117	112	115	110	115	110	110	108	112	102		1335	111			29
30	119	114	115	113	108	119	113	119	113	111	117	108		1369	114			30
31	116	120	113	116	118	111	110	119	116	113	111	111		1374	114			31
Sum	2896	2923	2993	2927	2926	2888	2903	2910	2882	2847	2832	2814		34741	2895	115.8	(25)	
Mean	115.8	116.9	119.7	117.1	117.0	115.5	116.1	1164	1153	113.9	113.3	112.6		1389.6	3476	1159	(30)	
														115.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 78

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	120	128	116	124	119	120	115	115	118	115	121	123		1434	119			1
2	115	130	112			123	114	119	119	123	113	121		(1189)	(119)	10		2
3	125	120	127	122	126	123	109	113	107	130	123	117		1442	120			3
4	118	110	124	114	114	125	119	115	114	110	116	120		1399	117			4
5	117	117	131	124	123	119	124	109	113	115	114	129		1435	120			5
6	122	113	117	123	126	122	120	113	121	119	119	128		1443	120			6
7	116	124	116	123	127	124	122	121	127	123	126	118		1467	122			7
8	113	123	122	130	130	119	124	123	111	117	105	115		1432	119			8
9	115	112	111	115	119	121	114	111	111	115	114	113		1371	114			9
10	112	106	118	117	117	118	116	117	111	112	117	114		1375	115			10
11	113	120	117	122	118	125	115	119	118	116	118	117		1418	118			11
12	127	118	121	114	117	116	125	123	112	113	122	120		1428	119			12
13	124	127	123	125	119	124	115	122	129	128	118	126		1480	123			13
14	128	128	119	120	128	125	121	131	125	123	113	129		1490	124			14
15	129	135	124	122	130	132	125	128	126	128	120	124		1523	127			15
16	121	122	126	120	131	124	120	129	122	128	129	129		1501	125			16
17	125	121	127	126	122	121	120	124			118	132		(1236)	(124)	10		17
18	136	136	130	127							133	134		(796)	(133)	6		18
19											133	136		(269)	(134)	2		19
20	124	125	131	131	122	122	126	119	130	133	128	138		1529	127			20
21	132	134	135	134	136	139	126	121	132	123	132	139		1583	131			21
22	130	129	127	125	125	125	126	127	123	122	121	115		1495	125			22
23	114	127	115	126	115	119	122	121	127	125	121	127		1459	122			23
24	119	117	110	118	127	121	123	127	117	127	127	120		1453	121			24
25	120	123	115	120	120	111	116	123	115	123	115	104		1405	117			25
26	107	105	112	107	120	115	115	106	99	100	99	106		1291	108			26
27	105	106	114	112	111	115	113	107	119	113	112	113		1340	112			27
28	109	118	111	117	114	118	116	120	114	111	115	110		1373	114			28
29	117	117	111	122	123	110	114	121	116	115	115	115		1396	116			29
30	119	125	118	113	118	115	121	131	124	116	112	119		1431	119			30
31																		31
Sum	3096	3129	3111	3140	3175	3147	3102	3112	3081	3100	3072	3128		37393	3114	119.8	(26)	
Mean	119.1	120.3	119.7	1208	122.1	121.0	119.3	119.7	118.5	119.2	118.2	120.3		1438.2	3624	120.8	(30)	
														119.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 79

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	122	115	122	124	131	127	122	123	112	115	113	108	1434	120			1
2	111	113	121	119	112	112	109	106	112	108	115	110	1348	112			2
3	116	109	115	106	113	117	121	116	103	107	109	113	1345	112			3
4	108	114	113	108	117	116	128	118	118	126	111	117	1394	116			4
5	110	113	120	118	118	109	114	120	113	113	116	115	1379	115			5
6	116	118	122	119	115	120	112	121	113	109	116	120	1401	117			6
7	112	118	110	116	127	120	115	120	117	122	110	121	1408	117			7
8	113	119	121	118	119	123	109	124	119	119	122	114	1420	119			8
9	121	123	117	131	129	123	130	123	117	116	112	114	1456	121			9
10	120	126	125	126	127	121	128	114	122	127	120	126	1482	124			10
11	129	122	119	125	124	126	124	119	131	127	132	124	1502	125			11
12	120					127	134	133	132	127	124	131	(1028)	(128)[8]			12
13	124	123	136	129	135	120	129	133	121	120	129	137	1536	128			13
14	130	125	134	124	127	119	120	125	125	131	127	129	1516	126			14
15	134	131	125	129	124	124	122	130	128	128	127	136	1538	128			15
16	134	131	130	137	133	130	125	132	136	133	130	135	1586	132			16
17	136	136	131	136	128	129	125	129	132	137	140	134	1593	133			17
18	129	137	136	138	145	132	139	128	124	135	135	131	1609	134			18
19											138	141	(279)	(140)[2]			19
20	138	128	123	132	133	138	131	132	135	139	129	134	1592	133			20
21	123	123	128	121	130	120	122	128	125	127	122	122	1491	124			21
22	119	120	125	126	120	118	129	125	124	125	119	126	1476	123			22
23	119	117	119	126	119	127	126	120	119	121	120	114	1447	121			23
24	116	125	122	118	124	115	124	124	124	119	117	117	1445	120			24
25	116	123	117	126	127	120	124	111	118	119	116	120	1437	120			25
26	111	123	126	120	124	120	118	115	127	115	115	115	1429	119			26
27	123	114	113	126	114	115	117	119	125	114	125	123	1428	119			27
28	117	118	123	132	123	123	115	126	121	119	127	121	1465	122			28
29	121	119	127	124	122	132	128	126	127	123	133	122	1504	125			29
30	125	129	125	126	118	128	121	118	131	128	110	120	1479	123			30
31	120	123	134	132	128	131	126	122	125	116	122	127	1506	126			31
Sum	3513	3535	3579	3612	3606	3555	3553	3547	3544	3538	3519	3545	42646	3554	122.6	(29)	
Mean	121.1	121.9	123.4	124.6	124.3	122.6	122.5	122.3	122.2	122.0	121.3	122.2	1470.4	3822	123.3	(31)	
													122.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 80

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	129	129	126	132	132	117	126	125	121	120	121	125	1503	125			1
2	126	131	122	130	128	118	117	118	117	119	126	122	1474	123			2
3					127	123	110	120	119	120	124	123	(966)	(121)[8]			3
4	121	125	129	125	124	128	119	118	123	126	121	120	1479	123			4
5	116	124	122	125	120	118	120	118	126	115	121	120	1445	120			5
6	131	125	131	133	126	132	118	123	117	126	126	123	1511	126			6
7	128	128	137	124	131	122	119	123	123	123	123	124	1505	125			7
8	124	123	127	127	125	125	124	125	130	131	126	124	1511	126			8
9	124	135	123	121	121	121	127	120	127	131	141	136	1527	127			9
10	138	130	137	138	130	131	129	121	123	126	122	135	1560	130			10
11	137	134	138	135	127	126	124	133	136	133	131	131	1585	132			11
12	131	131	131	124	129	136	136	128	129	140	127	136	1578	132			12
13	134	134	133	126	126	134	129	124	137	133	131	128	1569	131			13
14	128	141	134	123	134	133	137	129	136	136	133	138	1602	134			14
15	132	132	142	137	137	138	138	144	134	131	133	133	1631	136			15
16	133	133	139	141	150	141	135	138	139	132	133	130	1644	137			16
17	132	135	136	134	136	135	130	126	132	134	120	132	1582	132			17
18	136	123	127	131	127	122	120	126	125	120	123	120	1500	125			18
19	115	119	122	122	133	132	125	126	129	130	135	122	1510	126			19
20	125	129	129	134	133	131	128	128	126	127	125	132	1547	129			20
21	125	131	120	129	126	126	126	124	124	123	120	107	1481	123			21
22	114	126	126	123	128	122	114	120	116	114	116	121	1440	120			22
23											125	117	(242)	(121)[2]			23
24	127	121	134	133	122	122	120	123	118	122	122	127	1491	124			24
25	131	122	126	131	130	130	115	135	121	134	129	121	1525	127			25
26	128	128	130	132	124	129	125	123	132	127	121	131	1530	128			26
27	129	124	130	125	129	122	123	124	128	120	121	123	1498	125			27
28	128	130	131	133	124	124	127	128	126	129	121	133	1534	128			28
29	133	137	134	121	133	120	125	123	128	125	129	131	1539	128			29
30	119	123	121	125	125	115	118	120	116	121	119	123	1445	120			30
31	109	118	129	135	126	118	120	126	129	118	121	123	1472	123			31
Sum	3683	3721	3766	3749	3736	3668	3614	3639	3668	3666	3637	3671	44218	3685	127.1	(29)	
Mean	127.0	128.3	129.9	129.3	128.8	126.5	124.6	125.5	126.5	126.4	125.4	126.6	1524.8	3927	126.7	(31)	
													127.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 81

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	127	123	131	127	120	122			128	122	128	118		(1246)	(125)	10		1
2	126	129	127	124	139	122	122	126	125	125	125	127		1517	126			2
3	128	123	131	134	132	125	128	130	128	126	125	125		1535	128			3
4	129	138	142	131	132	142	126	128						(1068)	(134)	8		4
5											131	130		(261)	(130)	2		5
6	138	135	137	127	134	128	133	130	127	128	139	141		1597	133			6
7	123	128	134	148	135	138	126	140	137	137	132	137		1615	135			7
8	137	134	135	133	131	134	126	127	131	136	128	134		1586	132			8
9	131	130	128	133	132	137	132	129	130	129	131	131		1573	131			9
10	133	128	134	130	138	130	127	125	137	134	132	128		1576	131			10
11	130	131	136	127	134	130	129	135	129	133	130	132		1576	131			11
12	145	137	135	136	134	134	124	136	131	125	123	132		1592	133			12
13	129	126	126	141	134	134	136	130	133	135	134	127		1585	132			13
14	127	129	127	130	134	131	141	131	132	124	122	123		1551	129			14
15	120	125	132	132	132	129	146	132	130	124	118	118		1538	128			15
16					131	127	134	121	128	126	122	123		(1018)	(127)	8		16
17	131	122	126	131	130	132	123	132	133	133	127	123		1543	129			17
18	125	126	120	137	132	123	118	118	121	115	121	115		1471	123			18
19	115	115	119	123	125	120	123	122	125	123	118	114		1442	120			19
20	123	125	131	127	116	132	127	122	124	127	127	123		1504	125			20
21	118	132	134	129	122	123	120	125		113	112	125		(1353)	(123)	11		21
22	132	134			132	127	128							(653)	(131)	5		22
23		132	143	137	127	130	127	132	133	143	132	128		(1464)	(133)	11		23
24	141	135	136	138	141	126	126	139	135	135	133	135		1620	135			24
25	132	130	125	131	137	129	119							(903)	(129)	7		25
26						114	121	119	110	124				(588)	(118)	5		26
27																		27
28	117	125		116	124	129	125	122	132					(990)	(124)	8		28
29											128	125		(253)	(126)	2		29
30			126	130	140	122	129	131	127	122	140	125		(1292)	(129)	10		30
31																		31
Sum	2202	2178	2214	2251	2253	2205	2187	2204	2208	2189	2165	2165		26421	2201	129.5	(17)	
Mean	129.5	128.1	130.2	132.4	132.5	129.7	128.6	129.6	129.9	128.8	127.4	127.4		1554.1	3730	1286	(29)	
													(17)	129.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 82

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	122	129	132	125	125	127	129	130	128	132	124	121		1524	127			1
2	125	131	127	129	125	128	128	126	125	130	135	127		1536	128			2
3	128	132	128	135	127	130	126	128	132	132	132	131		1561	130			3
4	123	125	136	128	129	125	126	129	123	134	131	125		1534	128			4
5	128	141	123	127	132	124			127	123	131	128		(1284)	(128)	10		5
6	126	125	132	135	138	132	130	128	124	132	127	127		1556	130			6
7	136	129	130	130	130	121	125	127	132	127	131	130		1548	129			7
8	137	134	131	131	133	133	131	129	121	128	124	127		1559	130			8
9	126	132	130	134	123	130	129	126	132	124	122	119		1527	127			9
10	132	133	124	124	133	132	128	142	120	121	125	123		1537	128			10
11	130	122	124	125	126	127	135	130	127	126	121	113		1506	126			11
12	127	121	121	124	129	123	127	128	122	115	107	122		1466	122			12
13	119	122	122	122	133	131	128	131	123	120	129	121		1501	125			13
14	118	121	124	126	123	130	129	132	122	121	118	120		1484	124			14
15	117	129	133	126	118	128	121	123	124	113	120	113		1465	122			15
16	118	130	129	130	124	125	123	114	122	116	125	123		1479	123			16
17	129	121	127	121	126	127	122	122	127	129	120	119		1490	124			17
18	124	123	116	131	126	134	120	127	124	129	123	120		1497	125			18
19	128	121	124	129	123	120	123	126	123	128	124	130		1499	125			19
20	129	130	130	134	121	132	117	122						(1015)	(127)	8		20
21				124	130	122	120	109			120	118		(843)	(120)	7		21
22	118	120	117	121	120	118	121	113	115	127	119	121		1430	119			22
23	123	129	128	117	125	114	112	114	114	111	121	116		1424	119			23
24	120	123			128	120	110	125	117	117	120	118		(1198)	(120)	10		24
25	115	120	121	118	122	121	115	125	114	119	123	127		1440	120			25
26	121	123	131	126	130	116	129	122	124	118	124	123		1487	124			26
27	126	115	127	130	127	126	130	132	123	125	129	123		1513	126			27
28	120	134	134	133	133	129	126	130	140	124	133	126		1562	130			28
29	128	135	133	133	128	126	123	125	127	118	130	130		1536	128			29
30	126	131	126	129	124	126	126	120				128		(1136)	(126)	9		30
31	128	134	126	130	127	124	123	128	124	131	129	127		1531	128			31
Sum	3244	3290	3307	3313	3303	3277	3259	3287	3232	3230	3246	3204		39192	3267	125.7	(26d.)	
Mean	124.8	126.5	127.2	127.4	127.0	126.0	125.3	126.4	124.3	124.2	124.8	123.2		1507.1	3888	125.4	(31d.)	
														125.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 83

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	124	136	123	124	125	110	117	114	112	117	124	124	1450	121			1
2	124	128	127	123	127	128	124	126	122	117	118	120	1484	124			2
3	123	131	125	128	128	128	139	138	136	134	131	133	1574	131			3
4			135	131	124	135	130	134	130	132	130	125	(1306)	(131)	10		4
5	140	131	133	139	140	137	135	139	137	138			(1369)	(137)	10		5
6									139	127	122	128	(516)	(129)	4		6
7	127	132	123	137	125	136	131	122	134	131	121	119	1538	128			7
8	124	134	128	132	130	132	130	140			123	129	(1302)	(130)	10		8
9			133	122	129	133	128	119	121	128	127	115	(1255)	(126)	10		9
10	120	128	136	138	128	129	121	132	132	127	121	124	1536	128			10
11	128	128	141	130	136	134	132	125	131	124	121	128	1558	130			11
12	131	132	132	138	136	129	130	131	130	126	126	128	1569	131			12
13	129	130	131	137	133	134	120	126	131	127	124	130	1552	129			13
14	130	128	125	133	132	122	126	123	127	140	131	128	1545	129			14
15												134	(134)	(134)	1		15
16	124	127	125	128	132	132	126	128	129	122	122	135	1530	128			16
17	127	122	126	137	130	139	120	125	118	121	120	123	1508	126			17
18	125	136	133	129	132	122	122	128	121	121	130		(1399)	(127)	11		18
19		128				136	125	121	123	116			(749)	(125)	6		19
20																	20
21												123	(123)	(123)	1		21
22																	22
23							125	126	122	121	120	120	(734)	(122)	6		23
24	118	125	124	125									(492)	(123)	4		24
25																	25
26											128	123	(251)	(126)	2		26
27	132	134	128	122	129	121	122	122	134	130	114	125	1513	126			27
28	130	122	125	129	133	121	125	131	122	125	118	125	1506	126			28
29	118	118	122	136	126	122	128	133	129	128	127	131	1518	126			29
30	126	128	125	129	131	125	126	122	126	127	119	126	1510	126			30
31																	31
Sum	1893	1924	1914	1969	1951	1910	1887	1898	1913	1896	1837	1899	22891	1909	127.3	(15)	
Mean	126.2	128.3	127.6	1313	130.1	127.3	125.8	126.5	127.5	126.4	122.5	126.6	1526.1	3442	127.5	(27)	
													127.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 84

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1952

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	121	134	138	132	133	137	126	135	135	130	127	123	1571	131			1
2	128	130	128	132	132	131	122	125	131	131	121	118	1529	127			2
3	120	126	127	121	133	130	131	122	128	123	126	125	1512	126			3
4	124	125	121	125	137	125	125	132	122				(1136)	(126)	9		4
5											114	117	(231)	(116)	2		5
6	119	124	129	139	129	128	123	114	110	116	123	122	1476	123			6
7	128	124	118	118	125	125						119	(857)	(122)	7		7
8	128	119	128	119	125	125	129	124	130	127	119	123	1496	125			8
9	126	125	132	133	132	120	128	121	130	128	129	122	1526	127			9
10	115	126	130	136	120	132	127	128	127	121	121	124	1507	126			10
11	124	130	129	132	127	128	122	123	122	128	118	123	1506	126			11
12	126	119	136	130	129	132	125	126	126	128	122	122	1521	127			12
13	123	133	124	142	121	133	130	127	120	134	128	128	1543	129			13
14	123	130	139	132	136	124	127	126	131	126	126	128	1548	129			14
15	120	128	123	130	125	127	118	124	120	127	117	129	1488	124			15
16	123	124	132	125	121	122	116	115	114	118	127	129	1466	122			16
17	123	123	128	127	122	119	118	107	114				(1081)	(120)	9		17
18											124	122	(246)	(123)	2		18
19	112	122	124	122	121	124	124	118	128	133	119	120	1467	122			19
20	124	126	129	122	135	121	133	119	131	126	122		(1388)	(126)	11		20
21		127	120	132	133	126	133	119			125	130	(1145)	(127)	9		21
22	129	126	127	128	122	133	125	132	124	128	125	127	1526	127			22
23	137	131	134	128	127	130	131	125	120	133	123	123	1542	128			23
24	129	116	112	124	130	119	126	122	125	119	120	121	1463	122			24
25	121	119	133	121	118	125	120	123	127	125	122	127	1481	123			25
26	118	129	118	127	127	126	132	127	116	116	118	120	1474	123			26
27	124	124	128	135	126	123	128	134	118	128	128	117	1513	126			27
28	120	119	121	123	130	126	133	123	116	122			(1233)	(123)	10		28
29											131	119	(250)	(125)	2		29
30	118	127	131	128	123	125	126	121	124	123	128	115	1489	124			30
31	120	126	126	127	131	129	124	126	128	118	122	119	1496	125			31
Sum	2704	2768	2828	2843	2788	2803	2760	2738	2734	2760	2709	2705	33140	2762	125.5	(22 days)	
Mean	122.9	125.8	128.5	129.2	126.7	127.4	125.5	124.5	124.3	125.4	123.1	123.0	1506.3	3870	124.8	(31 days)	
													125.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 85

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1							128	123	122	125	123	128	(749)	(125)	6		1
2	124	126	116	128	127	130	122	130	124	130	126		(1383)	(126)	11		2
3			126	124	125	123	123	122	124	121	122	133	(1243)	(124)	10		3
4	126	128	130	123	127	135	127	121	125	119	115	115	1491	124			4
5	119	117	130	124	126	123	119	120	123	118	121	120	1460	122			5
6	121	126	129	135	122	121	125	131	126	120	122	119	1497	125			6
7	119	130	124	123					113	123	121	127	(980)	(122)	8		7
8	119	130	125	124	136	133	123	121	121	124	118	129	1503	125			8
9	121	139	134	127									(521)	(130)	4		9
10																	10
11							133	131	135	124	121	129	(773)	(129)	6		11
12	120	135	137	139	128	124	124	123	130	131	120	130	1541	128			12
13	131	128	136	128	128	126	116	125	121	125	120	121	1505	125			13
14	115	124	119	117	123	112	124	130	118	117	121	120	1440	120			14
15	120	121	123	130	116	114	127	123	114	110	118	118	1434	120			15
16	121	124	120	130	133	120	127	113	117	120	118	122	1465	122			16
17	118	118	125	125	125			118	119				(848)	(121)	7		17
18																	18
19																	19
20																	20
21							130	127	126	137	119	117	(756)	(126)	6		21
22	116	124	122	121	124	124	127	127	127	129	122	125	1488	124			22
23	121	127	119	126	126	131	123	134	127	123	120	117	1494	124			23
24	131	111	134	136	128	125	136	127	129				(1157)	(129)	9		24
25																	25
26							124	124	128	124	123	115	(738)	(123)	6		26
27	122	132	128	129	128	124	130	124	123	121	122	116	1499	125			27
28	123	127			133	135	130	127	124	126	130	126	(1281)	(128)	10		28
29	126	127	126	130	125	126	123	131	123	124	125	133	1519	127			29
30	132	128	132	131	126	131	129	130	120	128	128	123	1538	128			30
31	131	140	130	126	139	132	122	132	129	128	125	126	1560	130			31
Sum	1840	1911	1906	1913	1907	1876	1866	1885	1844	1837	1815	1834	22434	1869	124.6	(15)	
Mean	122.7	127.4	127.1	127.5	127.1	125.1	124.4	125.7	122.9	122.5	121.0	122.3	1497.5	3252	125.1	(26)	
													124.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 86

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	126	130			126	132	136				125	120	(895)	(128)	7		1
2									135	128	129	138	(530)	(132)	4		2
3	135	132	129	125	127	127	124	128	119	134	123	128	1531	128			3
4	135	125	131	128	127	134	127	128	134	123	122	132	1546	129			4
5	134	136	128	132	131	128	129	124	136	126	128	120	1552	129			5
6						131	132				131	129	(523)	(131)	4		6
7						129	129				127	128	(513)	(128)	4		7
8	132	135	124			138	137	129	131	127			(1053)	(132)	8		8
9				139	135	140	139	131	127	135			(946)	(135)	7		9
10								133	133	128	135	126	(655)	(131)	5		10
11	128	128	124	137	123	127	131	123	126	127	130	125	1529	127			11
12	125	126					117	126	125	130	127	130	(1006)	(126)	8		12
13	133	129	137	132	129	130	130	120	124	125	122	128	1539	128			13
14	128	124	131	125	122	124	119	111	117	128	121	127	1477	123			14
15	123	122	116	117	127	119	124	123	113	118	124	118	1444	120			15
16	118				129						122	123	(492)	(123)	4		16
17	122	127	132	124	126	122	117	116	124	129	133	117	1489	124			17
18	127	123	118	124	133	125	125	120			125	123	(1243)	(124)	10		18
19	123	129	126	134	137	121	133	127	124	121	131	117	1523	127			19
20	128	130	130	134	131						127	123	(903)	(129)	7		20
21	128	125			127	126	133	122	126	127	129	126	(1269)	(127)	10		21
22	128	123	126	126	129	134	129	136	127	119	122	127	1526	127			22
23	125	124	127	128	129	127	132	125	136	130	122	119	1524	127			23
24	125	132	129	139	129	131	132	135	132	130	122	130	1566	130			24
25	124	127	135	127	127	129	127	125	132	123	125	123	1524	127			25
26	120	128			127	120	127	136	124	122	129	134	(1267)	(127)	10		26
27	139	129	127	128	128	128	128	127	127	120	122	120	1523	127			27
28	123	127	131	124	125	117	129	130	128	124	117	127	1502	125			28
29																	29
30																	30
31																	31
Sum	1925	1914	1929	1926	1916	1898	1911	1878	1899	1877	1864	1858	22796	1898	126.5	(15 days)	
Mean	128.3	127.6	128.6	128.4	127.7	126.5	127.4	125.2	126.6	125.1	124.3	123.9	1519.6	3571	127.5	(28 days)	
													126.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS, THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 87

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean				Day
1	124	116	130	132	125	140	122	122	128	132	124	116		1511	126				1
2	128	126	132	130	131	123	127	119	118	125	122			(1381)	(126)	11			2
3			125			124	120	114	127	117				(727)	(121)	6			3
4		116									121	123		(360)	(120)	3			4
5	128	126	129	127	126	130	122							(888)	(127)	7			5
6		135	129	126	128	132	128	130	123	120	127	123		(1401)	(127)	11			6
7	121			117	125	125					123	119		(730)	(122)	6			7
8	122	120	135			133	122	125	129	129	122	122		(1259)	(126)	10			8
9	120	123	119	130										(492)	(123)	4			9
10																			10
11																			11
12																			12
13																			13
14						130					116	121		(367)	(122)	3			14
15	121	111	118	112	126	122	117	111	120					(1058)	(118)	9			15
16				125	109	115	122	127	116	121	122	112		(1069)	(119)	9			16
17	115	119	119	134	120	112	117	126	112	117	116	118		1425	119				17
18	113	124				126	119	118	118	117	119	107		(1061)	(118)	9			18
19					129	123	124	129	122	129	123			(879)	(126)	7			19
20					122	125	118	129	124	119	123	119		(979)	(122)	8			20
21	118	117	133	121							119	118		(726)	(121)	6			21
22	123	117	130		128	124	129	119	126	125				(1121)	(125)	9			22
23						126	134	128	122	119	123	122		(874)	(125)	7			23
24	127	118	132	127	126	120	120	125	121	120	123	123		1482	124				24
25	114	123	125	127	132	121	131	121	123	119	117	119		1472	123				25
26	130	117	127	126	125	130			118	121	126	126		(1246)	(125)	10			26
27	124	130	127	125	123	122	122	127	127	123	119	123		1492	124				27
28	126	125			123	130	134	129	126	122	127	132		(1274)	(127)	10			28
29	119	127	128	128	118	115	122	114	120	120	121	122		1454	121				29
30	125	130	126	129	125	123	116	116	125	121	124	123		1483	124				30
31	134	121	128	125	116	131	116	116	127	121	123	120		1478	123				31
Sum	982	984	1015	1027	985	984	966	967	983	973	967	964		11797	984	123.0	(8 days)		
Mean	122.8	123.0	126.9	128.4	123.1	123.0	120.8	120.9	122.9	121.6	120.9	120.5		14748	3324	123.1	(27 days)		
														122.9					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 88

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean				Day
1	134	124	129	129	128	119	120	128	122	132	120	127		1512	126				1
2	129	133	125			120	137	126	130	129	125	122		(1276)	(128)	10			2
3	129	137	124	133	130	121	126	124	122	132	121	127		1526	127				3
4						123	124	125	126	125	124	118		(865)	(123)	7			4
5	135	134	127	130	131	133	115	129	127	121	114	124		1520	127				5
6					128	122	121	125	123	131	123	129		(1002)	(125)	8			6
7	125	124	124	127	124	124	132	125	126	128	118	120		1497	125				7
8	133	120	129	121	124	121	124	117						(989)	(124)	8			8
9																			9
10						123	123	121	128	134	122	119		(870)	(124)	7			10
11	130	121	125	131	122	121	119	126	121	116	119	115		1466	122				11
12	116	122	123	137	129	126	125	126	116	121	124	117		1482	124				12
13	110	124	122	127	118	125	123	126	119	120	120	116		1450	121				13
14	117	126	119	117	119	123	126	118	129					(1094)	(122)	9			14
15											112	108		(220)	(110)	2			15
16	119	116	116	128		131	120	118	123	125	112	120		(1328)	(121)	11			16
17	124	114	122	131	129	124	117	114	112	119	122	115		1443	120				17
18	118	120	119	114	113	122	120	120	121	116	119	113		1415	118				18
19	114	123	116	120	116	127	115	118	123	116				(1188)	(119)	10			19
20					126	121	120	126	119	124	125	124		(985)	(123)	8			20
21	121	124	126	116	128	119	120	126	121	118	120	117		1456	121				21
22	120	120	128	118	125	118	115	123	114	119	118	121		1439	120				22
23	126	116	111	123	120	124	119	121	117	121	120	115		1433	119				23
24	119	131	117	118	116	119	111	124	120	116	110	117		1418	118				24
25	113	118	118	119	120	114	118	116	123	116	112	112		1399	117				25
26	122	118	121	128	120	121	126	116	113	120	127	119		1451	121				26
27	125	127	126	128	125	122	122	123	123					(1121)	(125)	9			27
28											126	125		(251)	(126)	2			28
29	125	131	121	130	134	122	121	120	127	124	121	121		1497	125				29
30	125	127	128	138	129	132	128	120	130	134	125	125		1541	128				30
31																			31
Sum	2092	2105	2085	2149	2116	2084	2055	2084	2051	2073	2030	2021		24945	2079	122.3	(17 days)		
Mean	123.1	123.8	122.6	126.4	124.5	122.6	120.9	122.6	120.6	121.9	119.4	118.3		1466.7	3549	122.4	(29 days)		
														122.2					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 89

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	124	130	135	133	128	123	129	126	133	137	130	123	1551	129			1
2	131	133	131	134	134	131	135	132	132	125	129	129	1576	131			2
3	127	130	125	136	132	123	125	129			132	121	(1280)	(128)	10		3
4	138	129	138	133	127	129	123	136	132	132	134	131	1582	132			4
5	125	127	126	131	127	120	130	132	128	133	128	117	1524	127			5
6	134	124	122	130	126	134	122	130	129	124	124	125	1524	127			6
7	119	123	126	126	123	125	120	124	120	117	120	122	1465	122			7
8	122	114	121	122	124	119	116	117	124	116	120	112	1426	119			8
9	118	120	126	123	124	126	122	130	124	125	123	119	1482	124			9
10	122	121	126	120	133	116	116	122	126	118	125	129	1474	123			10
11	125	118	125	123	120	118	122	125	125	125	127	121	1474	123			11
12	128	120	123	134	122	121	116	116	117	126	119	115	1457	121			12
13	120	131	121	124	125	121	121	112	120	120	124	115	1454	121			13
14	123	125	134	120	124	128	129	124	125	120	125	126	1503	125			14
15	113	128	126	124	119	127	114	116	120	120	124	121	1452	121			15
16	127	127	130	129	118	119	134	119	121	124	123	123	1494	124			16
17	117	124	127	120	123	124	121	118	126	125	125	116	1466	122			17
18	120	131	119	127	129	124	129	119	126	127	118	125	1494	124			18
19	125	122	127	132	119	123	126	117	120	128	119	117	1475	123			19
20	130	125	128	124	126	121	132	123	123	132	131	131	1526	127			20
21	125	131	126	131	124	122	123	121	110	131	127	125	1496	125			21
22	127	125	133	119	130	123	121	127	127	126	126	126	1510	126			22
23	129	127	132	134	125	123	125	124	121	126	125	124	1515	126			23
24	125	131	122	127	125	126	118	127	115	120	131	123	1489	124			24
25	125	131	125	124	123	132	119	124	127	120	127	126	1503	125			25
26	127	129	129	124	130	121	126	122	118	130	136	130	1522	127			26
27	128	126	131	131	130	136	120	131	125	123	125	126	1532	128			27
28	127	122	134	133	127	131	128	131	120	125	120	127	1525	127			28
29	129	125	132	124	134	127	127	122	117	122	127	120	1506	126			29
30	130	119	135	123	130	121	122	129	122	132	119	123	1505	125			30
31	130	130	124	119	142	128	129	132	126	124	125	123	1532	128			31
Sum	3763	3768	3834	3798	3791	3740	3714	3728	3699	3753	3756	3690	45034	3752	125.1	(30 days)	
Mean	125.4	125.6	127.8	126.6	126.4	124.7	123.8	124.3	123.3	125.1	125.2	123.0	15012	3880	125.2	(31 days)	
													125.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 90

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	119	126	125	123	126	126	128	130	124	125	119	122	1493	124			1
2	117	130	121										(368)	(123)	3		2
3														–			3
4														–			4
5						128	121	113	124	126	124	120	(856)	(122)	7		5
6	123	134	128	138	118		131	134	127	128	124	135	(1420)	(129)	11		6
7	124	130	132	135	130	129	144	128	122	123	119	133	1549	129			7
8	130	133	126	137	129	123	128	124	123	131	125	134	1543	129			8
9	130	135	127	130	134	121	128	116	120	119	129	136	1519	127			9
10	124	128	124	136	124	133	118	118	124	120	135	122	1506	126			10
11	129	125	129	135	135	128	117	130	138	117	125	128	1536	128			11
12	127	128	135	134	131	121	127	119	122	124	125	123	1516	126			12
13	119	122	123	130	122	126	129	122	127	128	118	125	1491	124			13
14	123	120	126	123	123	129	122	129	127	126	126	119	1493	124			14
15	134	125	121	126	132	133	120	129	126	125	136	127	1534	128			15
16	133	132	127	133	127	127	131	132	125	128	129	127	1551	129			16
17	127	125	125	126	121	119	127	125	119	127	122	127	1490	124			17
18	121	126	126	124	129	125	128	125	126	120	127	123	1500	125			18
19	130	119	130	127	128	130	132	125	126	131	127	135	1540	128			19
20	127	125	129	129	129	130	136	122	126	122	122	127	1524	127			20
21	124	126	133	126	129	124	131	123	119	128	126	127	1516	126			21
22	122	122	119	129	133	127	123	122	129	129	126	123	1504	125			22
23	126	130	126	132	126	128	125	131	126	125	128	126	1529	127			23
24	124	116	128	135	132	123	122	121	127	126	121	126	1501	125			24
25	132	131	128	129	130	129	126	122	125	122	130	127	1531	128			25
26	125	131	128	124	127	124	136	128	124	126	121	123	1517	126			26
27	132	134	137	130	131	130	125	131	138	129	130	132	1579	132			27
28	134	128	123	138	135	133	126	129	130	127	138	123	1564	130			28
29	127	132	129	129	134	129	128	128	129	135	118	127	1545	129			29
30	129	125	126	125	128	132	127	130	128	123	124	125	1522	127			30
31																	31
Sum	3172	3174	3182	3245	3225	3179	3184	3139	3150	3136	3146	3161	38093	3173	126.9	(25 days)	
Mean	126.9	127.0	127.3	129.8	129.0	127.2	127.4	125.6	126.0	125.4	125.8	126.4	1523.8	3547	126.7	(28 days)	
													127.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 91

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	121	134	127	125	140	128	126	123	131	131	130	126		1542	129			1
2	124	125	128	119	117	122	134	124	121	127	121	127		1489	124			2
3	131	126	123	121	134	124	122	131	119	125	127	126		1509	126			3
4	129	128	128	142	126	131	117	121	125	127	122	133		1529	127			4
5	131	127	128	138	127	131	125	131	130	133	119	127		1547	129			5
6	131	125	133	131	132	124	122	127	130	128	134	140		1557	130			6
7	132										125	122		(379)	(124)[3]			7
8	129	116	133	122	128	133	129	128	122	124	115	120		1499	125			8
9	123	123	130	126	125	120	128	125	124	122	114	125		1485	124			9
10	123	124	125	133	120	126	123	121	130	128	129	128		1510	126			10
11	125	133	127	137	126	136	128	122	121	129	135	127		1546	129			11
12	126	128	133	130	123	122	121	120	131	120	125	129		1508	126			12
13	122	128	116	125	122	128	121	127	120	119	127	128		1483	124			13
14	131	128	127	117	128	119	116	127	118	117	121	126		1475	123			14
15	134	132	132	138	137	133	134	130	128	132	129	133		1592	133			15
16	125	123	135	130	129	133	124	113	128	137	129	140		1546	129			16
17	130	127	130	131	128	132	128	124	131	132	133	128		1554	130			17
18	132	120	130	125	129	129	127	123	127	128	123	125		1518	126			18
19	135	123	127	129	129	121	128	130	125	131	126	120		1524	127			19
20	125	122	123	119	132	126	127	126	129	129	124	117		1499	125			20
21	128	123	123	132	126	132	139	137	132	120	128	121		1541	128			21
22	129	127	123	140	135	128	128	135	130	127	126	123		1551	129			22
23	124	130	135	126	133	127	123	124	133	128	125	134		1542	128			23
24	118	123	132	138	128	129	131	135	127	119	133	117		1530	128			24
25	129	126	122	125	128	126	133	125	127	120	132	120		1513	126			25
26	127	130	135	142	135	134	133	126	122	127	131	124		1566	130			26
27	131	126	139	130	134	137	137	130	128	125	138	132		1587	132			27
28	120	125	132	125	127	130	131	138	131	128	129	130		1538	128			28
29	135	134	124	130	132	126	132	124	130	126	135	121		1549	129			29
30	131	125	137	135	119	133	126	140	133	131	125	127		1562	130			30
31	132	128	126	130	140	129	132	136	128	129	131	138		1579	132			31
Sum	3831	3789	3863	3891	3869	3849	3825	3815	3811	3799	3816	3812		45970	3832	127.7	(30 days)	
Mean	127.7	126.3	128.8	129.7	129.0	128.3	127.5	127.2	127.0	126.6	127.2	127.1		15324	3958	127.7	(31 days)	
														127.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 92

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	132	131	128	134	135	127	128	134	131	131	140	129		1580	132			1
2	127	136	125	131	129	131	130	130	127	124	132	133		1555	130			2
3	134	129	127	125	129	127	124	120	132	128	138	133		1546	129			3
4	130	138	135	129	130	125	127	130	125	129	137	129		1564	130			4
5	122	133	125	126	121	116	127	128	124	134	126	132		1514	126			5
6	127	130	133	134	126	125	125	123	133	128	128	129		1541	128			6
7	127	132	127	136	127	127	113	131	123	124	134	125		1526	127			7
8	136	132	131	129	123	122	126	127	123	139	127	128		1543	129			8
9	128	137	121	120	125	118	124	124	122	119	114	119		1471	123			9
10	125	119	123	121	126	127	116	126	124	129	128	132		1496	125			10
11	130	135	131	137	138	126	126				124	130		(1177)	(131)[9]			11
12	132	141	138	128	125	126	128	129	128	127	124	121		1547	129			12
13	135	123	134	131	122	124	130	124	121	121	126	122		1513	126			13
14	133	125	129	126	125	130	123	129	123	137	134	126		1540	128			14
15	127	131	122	130	126	124	126	120	133	121	114	124		1498	125			15
16	122	122	129	127	140			124	138	124				(1026)	(128)[8]			16
17											125	118		(243)	(122)[2]			17
18	128	132	135	137	131	115	120	127	128	123	129	128		1533	128			18
19	136	137	126	128	138	136	126	134	133	130	128	126		1578	132			19
20	129	124	130	131	141	126	133	138	123	128	124	128		1555	130			20
21	136	138	128	137	129	127	131	127	128	138	121	126		1566	130			21
22	135	128	127	131	135	131	139	134	129	118	133	123		1563	130			22
23	131	127	132	124	128	142	129	128	134	132	134	125		1566	130			23
24	123	136	130	135	137	135	135	132	127	129	127	131		1577	131			24
25	123	130	134	128	127	122	126	137	124	129	129	133		1542	128			25
26	131	127	135	127	138	130	125	123	130	133	127	128		1554	130			26
27	133	127	130	133	125	130	136	134	132	133	132	131		1576	131			27
28	132	126	137	135	135	120	124	132	121	132	130	133		1557	130			28
29	137	132	134	135	126	124	133	132	128	133	134	136		1584	132			29
30	138	144	137	136	133	134	128	129	131	134	130	137		1611	134			30
31	132	128	136	128	127	116	122	132				132		(1153)	(128)[9]			31
Sum	3527	3545	3513	3517	3492	3421	3432	3482	3437	3483	3480	3467		41796	3483	129.0	(27 days)	
Mean	130.6	131.3	130.1	130.2	129.3	126.7	127.1	129.0	127.3	129.0	128.9	128.4		1547.9	3992	128.8	(31 days)	
														129.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 93

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1								129		138	136	130		(533)	(133)	4		1
2	130	132	132	131	128	124			135	131				(1043)	(130)	8		2
3	132				132	123	129	122	131	127	137	133		(1166)	(130)	9		3
4	129	130	132	135	127	128	126	131	126	129	120	133		1546	129			4
5	133	127	134	134	134						120	133		(915)	(131)	7		5
6	128	129	142	127	126	120	138				131	126		(1167)	(130)	9		6
7	129	142	133	129	128	139	124	123	131	142	120			(1440)	(131)	11		7
8						139	135	136	133	131	131	130		(929)	(133)	7		8
9	124	128	128	136	130	138	125	126	140	137	128	123		1563	130			9
10	139	132	133	131	138	133	138	133	135	138	129	120		1599	133			10
11	128	122	126	137	136	131	130							(910)	(130)	7		11
12						126	131	134	121	133	136	122		(903)	(129)	7		12
13	127	127	128		134	133	136	116	125	127	132	125		(1410)	(128)	11		13
14	129	127			132	131	131	134	132	128	126	123		(1293)	(129)	10		14
15	135				134						121	113		(503)	(126)	4		15
16	119	124	120	136	134		136	127	123	119	123			(1261)	(126)	10		16
17					129	132	137				125	135		(658)	(132)	5		17
18	135	132	140	134							132	131		(804)	(134)	6		18
19	128	133	128	134	132	134			137	136	127	127		(1316)	(132)	10		19
20	131			132			139				128	138		(668)	(134)	5		20
21	132		137	137				132	140	134	144	132		(1088)	(135)	8		21
22	137	142	133	125	133					125	135	133		(1063)	(133)	8		22
23	138	131				140	129	129	136	130	129	130		(1192)	(132)	9		23
24	125				125	130	140	119	126	126				(891)	(127)	7		24
25						132	131	132			137	130		(662)	(132)	5		25
26	125	131	129	139	126	133	136	128	127	127	125	132		1558	130			26
27	125	133	132	134	134	122	130	129	119	129	135	128		1550	129			27
28	138	132	135	133	126	121	131	121	124	134	130			(1425)	(130)	11		28
29					125									(125)	(125)	1		29
30																		30
31																		31
Sum	642	654	654	675	655	654	655	647	647	660	637	636		7816	651	130.2	(5 days)	
Mean	128.4	130.8	130.8	135.0	131.0	130.8	131.0	129.4	129.4	132.0	127.4	127.2		1563.2	3783	130.4	(29 days)	
														130.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 94

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1																		1
2	126	132	132	136	128									(654)	(131)	5		2
3																		3
4																		4
5							141	128	128	120	134	130		(781)	(130)	6		5
6	134	127	136	129	132	127	129	120	128	123	131	126		1542	128			6
7	128	130	132	129	130	124	121	122	127	128	128	129		1528	127			7
8	126	130	130	124	126	122	127	133	140	131	132	127		1548	129			8
9	131	134	136	130	137	120	127	123	130	127	125	122		1542	128			9
10	124	125	120	135	125	130	130	128	130	124	130	120		1521	127			10
11	122	123	127	130	125	124	125	132	124	131	121	114		1498	125			11
12	125	132	131	132	140	125	121	130	122	123	116	117		1514	126			12
13	121	131	124	130							121	120		(747)	(124)	6		13
14	125	130	129	127	134	142	135	131	131	141	120	130		1575	131			14
15	131	128	128	130	137	135	138	132	123	134	127	134		1577	131			15
16	132	136	141	136	131	138	141		130	137	133	125		(1480)	(135)	11		16
17	142	145	129	131	138	122	130	132	123	136	133	127		1588	132			17
18	127	134	136	137	140	130	135	141	130	136	129			(1475)	(134)	11		18
19				128	125						134	135		(522)	(130)	4		19
20	128	137	136	127	131	130	137	130	135	131	128	136		1586	132			20
21	126	120	134	126	135	136	131	133	130	134	126	131		1562	130			21
22	138	130	147	137	136	136	133	132	131	128	123	141		1612	134			22
23	138	144	137	134	124	128	135	133	135	135	145	136		1624	135			23
24	137	130	136	133	132	133	134	134	138	141	139	134		1621	135			24
25	134	124	138	131	128	131	135	135	135	138	139	134		1602	134			25
26	137	125	127	134	133	139	136	131	141	139	125	140		1607	134			26
27	137	144	134	130	132	126	135	122	134	119	129	131		1573	131			27
28	136	138	138	138	138	140	134	135	137	124	133	131		1622	135			28
29	132				137	131	144	135	139	135	128	124		(1205)	(134)	9		29
30	138	133	129	132	131	132	130	133	136	124	131	130		1579	132			30
31	130	136	142	132	133	133								(806)	(134)	6		31
Sum	2637	2629	2654	2619	2644	2602	2623	2601	2630	2611	2581	2590		31421	2616	130.8	(20 days)	
Mean	131.8	131.4	132.7	132.0	132.2	130.1	131.2	130.0	131.5	130.6	129.0	129.5		1572.0	3668	131.0	(28 days)	
														131.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 95

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1						143	132	140	128	133	123	128		(927)	(132)^{7}			1
2	124	134	128	125	136	138	141	136	127	131	127	128		1575	131			2
3	136	130	139	135	132	124	141	132	130	134	128	132		1593	133			3
4	136	133	129	133	130	126	135	137	139	134				(1332)	(133)^{10}			4
5					132	137	136	140	133	135	140	132		(1085)	(136)^{8}			5
6	134	131	138	141	141	132	137	124	124	127	127	126		1582	132			6
7	127	131	142	132	138	126	134	126	133	126	123	132		1570	131			7
8	127	131	128	127	127	137	124	128	131	127	120	138		1545	129			8
9	131	131	135	132	131	126	131	126	129	134	128	130		1564	130			9
10	131	132	139	143	136	128	134	139	130	130	131	124		1597	133			10
11	123	135	134	133	127	136	130	128	131	128	126	138		1569	131			11
12	136	131	138	130	131	121	132	141	131	121	124	134		1570	131			12
13	132	131	135	131	133	137	130	123	129	124	127	132		1564	130			13
14	136	131	131	132	128	123	132	123	127	127	120	124		1534	128			14
15	132	137	134	126	123	123	127	132	130	133	129	128		1554	130			15
16	129													(129)	129)^{1}			16
17																		17
18							131	125	127	136	127	132		(778)	(130)^{6}			18
19	125	131	133	135	134	128	123	129	119	128	123	129		1537	128			19
20	130	134	140	123	132	131	131	134	133	132	132	142		1594	133			20
21	134	134	134	129	136	131	121	137	138	134	140	136		1604	134			21
22	134	145	144	145	134	135	136	135	134	129	129	125		1625	135			22
23	135	136	141	135	134	132	127	120	127	124	131	123		1565	130			23
24	122	132	128	127	115	125	129	130	124	120	114	124		1490	124			24
25	121	131	135	134	125	127	120	125	124	138	116	124		1520	127			25
26	119	128	124	135	138	124	118	124	124	126	146	119		1525	127			26
27	133	128	130	136	128	129	123	124	128	123	130	128		1540	128			27
28	130	125									133	135		(523)	(131)^{4}			28
29	124	131	135	137	128	130	134	125	135	132	135	126		1572	131			29
30			141	134	134	137	141	140	133	129	136	138		(1363)	(136)			30
31																		31
Sum	2846	2915	2965	2923	2887	2843	2855	2841	2838	2828	2806	2842		34389	2866	130.6	(22 days)	
Mean	129.4	132.5	134.8	132.9	131.2	129.2	129.9	129.1	129.0	128.5	127.5	129.2		1563.2	3793	130.8	(29 days)	
														130.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 96

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1953

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	138	127			126						131	129		(651)	(130)^{5}			1
2	137	132	135	138	130	127	132	134	136	136	131	137		1605	134			2
3	128	131	131	133	131	136	128	134	124	127	132	127		1562	130			3
4	139	140	129	139	135	136	134	124	133	132				(1341)	(134)^{10}			4
5																		5
6	125	131	130	131	128	133								(778)	(130)^{6}			6
7						129	126	130	137	130	130	130		(912)	(130)^{7}			7
8	128	137	132	134	136	135	126	135	130	124	125	128		1570	131			8
9	136	133	122	134	122						135	127		(909)	(130)^{7}			9
10	128	141	132	134	134	130	131	129	127	136	125	126		1573	131			10
11	132	131	128	128	131				130	136				(916)	(131)^{7}			11
12					127	127	133	129	130	133	135	129		(1043)	(130)^{8}			12
13	134	130	132	134	133	132	127	130	134	118				(1304)	(130)^{10}			13
14			135	131	133	136	130	128	132					(925)	(132)^{7}			14
15											132	123		(255)	(128)^{2}			15
16	131	134	136	135	142	138								(816)	(136)^{6}			16
17		140									126	121		(387)	(129)^{3}			17
18					132	137	127	139	139	133	130	125		(1062)	(133)^{8}			18
19	130	135	138	133	136	130	139	134	130	131	139	128		1603	134			19
20											130	129		(259)	(130)^{2}			20
21	131	131	139	132	136	134	130	132	138	122	128	129		1582	132			21
22	128	135	130	128	135	138	134	132	133	127	130	133		1583	132			22
23	133	138	133	131	132	148	131	134	128	124	137	128		1597	133			23
24	136	136	141	138	135	141	137	130	124	128	124	136		1606	134			24
25	137	132	136	126	129	132	136	132	124	125	131	128		1568	131			25
26	131	130	127	134	130	129	135	132	138	133	132	126		1577	131			26
27	131	130	131	132	132	131	128	129	138	141	147	142		1612	134			27
28	134	127	132	132	138	140	131	138	136	129	138	128		1603	134			28
29	138										139	126		(403)	(134)^{3}			29
30	135	134	135	136	136	132	130	138	131	130	137	129		1603	134			30
31	135	139	130	141	141	136	131	130	136	142	127	127		1615	135			31
Sum	1982	2008	2002	2002	2011	2019	1979	1993	1973	1955	1983	1952		23859	1990	132.7	(15 days)	
Mean	132.1	133.9	133.5	133.5	134.1	134.6	131.9	132.9	131.5	130.3	132.2	130.1		1590.6	3957	131.9	(30 days)	
														132.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 97

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1					135	132	128	140	131	136	129	139	(1070)	(134)	8		1
2	137	139	134	143	131	140	128	135	134	137			(1358)	(136)	10		2
3			136	135	129	130	133	125	128		129	126	(1171)	(130)	9		3
4				133	136	133	129	142	136	137	129	129	(1204)	(134)	9		4
5	129	133			138	127	133	135	131	131	125		(1182)	(131)	9		5
6					134	133	131	132	135	132	129	136	(1062)	(133)	8		6
7	132	141	140	132	124	129	139	124	134	131	136	128	1590	132			7
8	135	135	135	123	126			122	131	134	128	126	(1295)	(130)	10		8
9	136	131	136	135	124	127	127	135	130	131	128	131	1571	131			9
10	132	129	131	132	134	128	121	122	130	137	129	136	1561	130			10
11	129	130	130	130	132	133	137	133	126	132	132	132	1576	131			11
12	136	139	141	128	134	134	138	127	127	129	136	136	1605	134			12
13	128	125	133	144	137		133	131	125	125	136	129	(1456)	(132)	11		13
14	130	134	129	134	133	132	137	132	137	131	134	134	1597	133			14
15	135	133	137	130	138	134	135	127	137	139	136	133	1614	134			15
16	134	132	141	135	131	127	129	136	126	130	128	138	1587	132			16
17	126	131	135	136	131	125	134	130	137	133	126	125	1569	131			17
18	134	138	134	135	137	134	134	132	133	122	138	126	1597	133			18
19	126	133	129	135	135	141	139	139	133				(1210)	(134)	9		19
20																	20
21						132	133	130	131	133	125	128	(912)	(130)	7		21
22	127	136	127	130	135	133	126	132	128	134	134	128	1570	131			22
23	145	128	129	128	133	126	127	134	138	129	132	131	1580	132			23
24	133	134	132	144	124	133	136	125	135	124	134	124	1578	132			24
25	137	134	121	130	132	127	185	128	132	137	131	136	1580	132			25
26	130	142	132	133	146	129	134	136	135	142	138	134	1631	136			26
27	135	128	136	134	140	129	129	125	140	129	133	132	1590	132			27
28	134	134	142	129	141	131	135	129	135	134	134	133	1611	134			28
29	132	138	136	137	128	130	129	130	127	119	129	127	1562	130			29
30	132	126	134	136	132	125	132	123	139	125	127	134	1565	130			30
31	126	136	132	138	130	131	131	125	126	127	130	130	1562	130			31
Sum	2655	2674	2675	2666	2659	2597	2645	2585	2652	2615	2645	2628	31696	2640	132.0	(20 days)	
Mean	132.8	133.7	133.8	133.3	133.0	129.8	132.2	129.2	132.6	130.8	132.2	131.4	1584.8	3964	132.1	(30 days)	
													132.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 98

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	138	141	129	135	136	130	130	134	137	129	131	132	1602	134			1
2	132	134	135	138	138	134	134	138	133	132	122	127	1597	133			2
3	129	140	131	136	135	132	128	137	127	129	122	128	1574	131			3
4	129	132	131	124	134	124	138	127	128	137	132	131	1568	131			4
5	133	131	126	130	132	128	127	129	136	133	133	135	1573	131			5
6	127	132	135	138	125	128	120	123	127	135	132	120	1542	128			6
7	122	127	132	136	128	127	122	130	127	140	134	129	1554	130			7
8	125	126	141	132	129	131	129	127	127	133	131	130	1561	130			8
9	135	132	128	132	132	133	135	138	125	133	132	130	1585	132			9
10	129	130	142	134	130	132	133	130	130	126	133	122	1571	131			10
11	132	133	138	130	126	124	134	127	133	136	132	132	1577	131			11
12	128	128	131	137	134	134	135	130	131	131	135	128	1582	132			12
13	128	129	134	130	127	130	141	124	130	138	133	133	1577	131			13
14	136	136	131	134	144	131	135	131	132	135	133	139	1617	135			14
15	131	134	138	133	136	138	128	129	132	133	133	134	1599	133			15
16	136	143	143	136	132	133	137	131	134	130	131	125	1611	134			16
17	138	137	131	133	130	136	129	130	131	131	133	131	1590	132			17
18	138	141	129	136	141	123	134	136	127	133	134	137	1609	134			18
19	134	138	123	130	132	126	135	136	131	120	135	134	1574	131			19
20	136	140	138	130	130	130	132	133	126	128	139	128	1590	132			20
21	137	135	129	127	127	133	136	134	128	128	127	127	1568	131			21
22	136	129	127	132	138	123	130	124	129	130	123	132	1553	129			22
23	134	131	138	135	126	125	136	132	124	131	135	135	1582	132			23
24	128								137	126	138		(529)	(132)	4		24
25											131	132	(263)	(132)	2		25
26	134	133	133	135	143	140	133	130	135	139	134	131	1620	135			26
27	132	125	129	129	131	133	135	133	134	132	133	138	1584	132			27
28	132	142	140	136	145	132	133	130	151	140	134	141	1656	138			28
29																	29
30																	30
31																	31
Sum	3441	3479	3462	3458	3461	3390	3439	3403	3405	3442	3427	3409	41216	3433	132.0	(26 days)	
Mean	132.3	133.8	133.2	133.0	133.1	130.4	132.3	130.9	131.0	132.4	131.8	131.1	1585.3	3697	132.0	(28 days)	
													132.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 99

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	130	134	131	135	132	132	133	134	142	137	128	131		1599	133			1
2	128	137	128	134	134	133	127	141	139	134	137	136		1608	134			2
3	134	136	133	140	133	140	138	134	136	129	125	137		1615	135			3
4	133	145	131	143	125	134	136	144	130	128	122	136		1607	134			4
5	136	133	139	148	130	134	144	131	136	131	135	142		1639	137			5
6	135	148	134	131	130	135	132	132	129	133	125	133		1597	133			6
7	135	125	138	130	132	126	133	131	136	125	130	126		1567	131			7
8	119	135	136	132	137	123	127	130	127	130	133	129		1558	130			8
9	131	126	135	133	132	130	129	132	138	131	123	124		1564	130			9
10	125	130	134	145	130	131	129	127	136	128	140	142		1597	133			10
11	128	130	130	133	129	124	136	133	130	129	131	131		1564	130			11
12	141	137	132	133	124	129	134	129	131	134	121	129		1574	131			12
13	133	145	136	129	141	133	131	136	138	126	136	133		1617	135			13
14	128	135	138	132	130	133	138	136	131	134	127	130		1592	133			14
15	132	125	138	138	145	136	137	135	126	136	127	135		1610	134			15
16	130	137	135	142	145	129	131	135	132	132	134	137		1619	135			16
17	133	135	136	129	136	132		139	133	136	134	134		(1477)	(134)[11]			17
18	141	141	139	139	137	148	133	146	128	125	133	138		1648	137			18
19	136	133	138	142	133	137	133	139	125	122	131	133		1602	134			19
20	134	133	133	136	131	129	126	123	128	133	135	121		1562	130			20
21	141	138	131	130	138	127	129	123	141	134	126	123		1581	132			21
22	126	136	132	140	139	138	135	130	138	141	130	129		1614	134			22
23									131	135	138	131		(535)	(134)[4]			23
24	132	132	131	140				135	141	135	131	134		(1211)	(135)[9]			24
25	144	136	135	139	131	137	126	129	132	119	134	129		1591	133			25
26	132	137	133	133	133	130	133	139	132	133	141	131		1607	134			26
27	136	138	147	136	130	136	130	142	138	131	138	133		1635	136			27
28																		28
29	135	130	139	132	136	137	140	138	144	134	134	137		1637	136			29
30	128	135	134	136							134	134		(801)	(134)[6]			30
31	140	138	130	132	133	134	137	140	141	136				(1361)	(136)[10]			31
Sum	3324	3380	3375	3405	3337	3321	3320	3349	3343	3269	3276	3305		40004	3334	133.4	(25 days)	
Mean	133.0	135.2	135.0	136.2	133.5	132.8	132.8	134.0	133.7	130.8	131.0	132.2		1600.2 133.4	4007	133.6	(30 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 100

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1			131	137	131	135	127				127	138		(936)	(134)[7]			1
2	130	132	147	135	133	130	131	132	131	135	128	134		1598	133			2
3	136	136	138	131	140	130	137	138	134	122	134	130		1606	134			3
4	127	140	130	136	141	138	130		140	131	134	134		(1481)	(135)[11]			4
5	131	143	135	138	128	139	126	135	133	129	129	132		1598	133			5
6	132	135	137	136	137	131	135	139	130	130	131	127		1600	133			6
7	137	136	132	138	135	124	134	132	128	137	129	126		1588	132			7
8	133	127									137	132		(529)	(132)[4]			8
9	125	126	139	134	139	127	135	134	127	129	129	121		1565	130			9
10	128	133	143	131	131	133	135	144	125	124	138	128		1593	133			10
11	134	139	133	130	134	135	129	133	128	135	132	134		1596	133			11
12	142	128	131	137	132	131	129	134	129	128	131	132		1584	132			12
13	131	126	132	133	137	136	132	122	124	129	128	139		1569	131			13
14	120	130	137	132	132	125	127	128	126	129	123	136		1545	129			14
15	129	129	134	126	130	136	122	137	134	126	137	137		1577	131			15
16	132	134	134	141	143	133	136	129	127	129	135	132		1605	134			16
17	133				127	121	138	135	132	137	135	139		(1197)	(133)[9]			17
18	132	137	136	141	136	134	133	130	133	123	130	131		1596	133			18
19	133	134				127	122	128	130	133	136	139		(1182)	(132)[9]			19
20	136	132	145	142	137	125	131	129	136	128	138	130		1609	134			20
21	137	135	133	137	128	134	137	141	121	130	130	128		1591	133			21
22	129	130	133	128	128	126	133	127	125					(1159)	(129)[9]			22
23																		23
24																		24
25																		25
26																		26
27																		27
28							140	138	135	135	139	141		(828)	(138)[6]			28
29	137	136	128	133	138	137	134	125	130	131	137	131		1597	133			29
30	130	131	140	134	128	133	128	132	129	139	124	138		1586	132			30
31																		31
Sum	2379	2398	2454	2429	2418	2373	2371	2394	2325	2333	2363	2366		28603	2383	132.4	(18 days)	
Mean	132.2	133.2	136.3	134.9	134.3	131.8	131.7	133.0	129.2	129.4	131.3	131.4		1588.7 132.4	3316	132.6	(25 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 101

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	124	127	125	139	132	132	125	131	132	127	129			(1423)	(129)	11		1
2					129	138	133	133	131	135	129	129		(1057)	(132)	8		2
3	133	134	127	133	143	140	129	134	129	138	128	130		1598	133			3
4	125	133	132	140	135	124	131	129	133	133	136	127		1578	132			4
5	137	135	135	129	131	141	130	136	130	129	127	129		1589	132			5
6	137	133	136	131	132	136	129	130	124	131	137	137		1593	133			6
7	133	132	132	134	138	129	131	140	140	128	139	134		1610	134			7
8	131	141	136	135	136	127	133	127	140	132	134	127		1599	133			8
9	128	129	134	138	131	132	125	128	125					(1170)	(130)	9		9
10		128	124	132	131	134	131	128	127	130	130	135		(1430)	(130)	11		10
11	130	146	135	130	129	127	137	140	137	137	130	138		1616	135			11
12	127	138	127	144	132	126	125	132	139	127	128	133		1578	132			12
13	127	127	132	123	137	125	127	129	136	134	129	129		1555	130			13
14	126	132	130	126			128	128	131	127	124	128		(1280)	(128)	10		14
15	130	128	135	129	131	121	134	125	142	136	132	134		1577	131			15
16	133	136	130	137	130	131	131	127	123	127	126	128		1559	130			16
17	134	134				130	129	140	135	122	123	136		(1183)	(131)	9		17
18			136	131	129	132	133	131	138	124	131	129		(1314)	(131)	10		18
19	135	138	133	136	136	123	131	137	136	139	133	134		1611	134			19
20	136	136	135	134	139	126	137	127	130	133	134	122		1589	132			20
21	127	128	129	126	137	137	128	138	129	134	126	130		1569	131			21
22	127	137	131	142	130	132	124	134	131					(1188)	(132)	9		22
23																		23
24						132	138	136	135	144	131	140		(956)	(137)	7		24
25	136	140	132	131	134	128	131	136			127	135		(1330)	(133)	10		25
26	132	134	146	130	129	141	125	132	128	129	136	138		1600	133			26
27	145	138	131	129	133	133	133	128	131	137	126	137		1601	133			27
28	137	133	128	129	129	135	145	133	135	133	129	140		1606	134			28
29	142	139	140	134	147	137	137	131	134	130	138	133		1642	137			29
30	127	130	132	137	136	130	132	139	129	134	147	134		1607	134			30
31	131	133	137	127	137	132	129	139	132	142	139	130		1608	134			31
Sum	2655	2692	2668	2647	2697	2621	2634	2653	2657	2663	2654	2644		31885	2657	1328	(20 days)	
Mean	132.8	134.6	133.4	132.4	134.8	131.0	131.7	132.6	132.8	133.2	132.7	132.2		1594.2	3970	132.3	(30 days)	
														132.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 102

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	140	143	131	129	143	131	136	129	134	142	127	136		1621	135			1
2	132	139	135	135	127	136	138	138	136	135	140	134		1625	135			2
3	136	131	136	136	134	133	127	136	133	131	136	131		1600	133			3
4	133	139	134	132			127	129	129	127	132			(1182)	(131)	9		4
5		131												(131)	(131)	1		5
6		132	134				136	121	134		136	136		(929)	(133)	7		6
7	137	141	135	141	138	136	138	143	130	140	130	133		1642	137			7
8	137	130	141	137	134	135				134	137			(1085)	(136)	8		8
9						132	132	145	136	139	133	129		(946)	(135)	7		9
10		144	136	140	140	140	134	141	133	133	140	132		(1513)	(137)	11		10
11					136	136	133			136	129	139		(809)	(135)	6		11
12	137	131	144	133	134	132	137	129		131				(1208)	(134)	9		12
13						134	137	130	134	132				(667)	(133)	5		13
14					144	128	127	131	135	139	131	133		(1068)	(134)	8		14
15	127	131	137	133	131	133	133	127	130	129	138	139		1588	132			15
16	136	135	127	138	138	124					140	138		(1076)	(134)	8		16
17	133	134	134	140	135	129	134	132	133	134	138	132		1608	134			17
18	134	138	136	140	131	133	135	129	133	126	127	127		1589	132			18
19	138	130	133	142	133	134	122	129	128	133	132	131		1585	132			19
20	144					126	127	127	132	134	131	141		(1062)	(133)	8		20
21	139	131	135	142	130	135	139	129	135	133	130	145		1623	135			21
22	135	130	136	140	138	138	132	138	133	135	136	129		1620	135			22
23	138	141	129	143		132	126	136	137	141	131	137		(1491)	(136)	11		23
24	135	139	135	136	139	140	138	131	132	128	139	135		1627	136			24
25	136	141	141	126	133	126					131	135		(1069)	(134)	8		25
26	131	135	130	133	136	133	130	132			130	127		(1317)	(132)	10		26
27			143	139	132	130			134	130	143	136		(1087)	(136)	8		27
28	142				136	139	133	132	134	133	129			(1078)	(135)	8		28
29		130	140	138	136	141								(685)	(137)	5		29
30					138	134	137	138	139	136	137	136		(1095)	137)	8		30
31																		31
Sum	1486	1487	1483	1514	1479	1478	1472	1461	1457	1466	1473	1472		17728	1476	134.2	(11 days)	
Mean	135.1	135.2	134.8	137.6	134.5	134.4	133.8	132.8	132.5	133.3	133.9	133.8		1611.7	4029	134.3	(30 days)	
														134.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 103

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean				Day
1	143	142	140	141	131	132	134	139	135	136	139	130	1642	137				1
2	142	137	136	136	133	128	137	134	135	133			(1351)	(135)	10			2
3											137	133	(270)	(135)	2			3
4	137	141	141	139	128	138	131	138	139	149	137	135	1653	138				4
5	140	134			139	130	138	133	126	142	135	142	(1359)	(136)	10			5
6	142	137	139	137	138	136	123	133	137	140	139	134	1635	136				6
7	140	139	128	135	131	140		129	130	137			(1209)	(134)	9			7
8					129	141					142	130	(542)	(136)	4			8
9	142	142	133	136	145	132	129	136	128	132	134	141	1630	136				9
10	133	133	130	129	124	131	122	135	134	135	136	129	1571	131				10
11	138	143	138	134	136						128	133	(950)	(136)	7			11
12	133	137	135	137	140	129	134			145	137	140	(1367)	(137)	10			12
13	128	140	134	138	137	138	129	133	134	130	139	141	1621	135				13
14	137	128	136	134	132	124	130	135	139	137	130	136	1598	133				14
15	145	136	133	127	140	135	135	132	134	128	123	136	1604	134				15
16	132	141	139	132	132	132					134	131	(1073)	(134)	8			16
17	134	135	135	133	132	137	137	128	130	133	136	133	1603	134				17
18	123	132	127	129	139	126	138	127	134	135	139	136	1585	132				18
19	134	139	131	134	131	138	125	137	131	125	135	128	1588	132				19
20	130	132	141	132	139	138	131	140	134	135	133	132	1617	135				20
21	133	136	133	132	132	133	133	139	135	132	137	134	1609	134				21
22	139	140	137	133	130	132	125	132	130	140	138	133	1609	134				22
23	140	136	133	141	137	142	141	132	140	137	131	138	1648	137				23
24	138	132	137	136	128	135	133	138	131	142	133	133	1616	135				24
25	137	131	136	135	140	137	128	134	134	137	134	138	1621	135				25
26	131	136	136	135	133	133	139	134	138	144	143	134	1636	136				26
27	139	136	139	123	136	139	135	135	140	142	139	137	1640	137				27
28	135	146	140	133	133	142	136	130	142	133	136	143	1649	137				28
29	140	143	140	135	139	140	138	139	132	136	143	140	1665	139				29
30	135	137	132	136	126	133	132	141	131	140	133	138	1614	134				30
31	135	131	136	134	141	140	140	139	135	139	138	133	1641	137				31
Sum	3130	3141	3119	3082	3091	3111	3044	3106	3097	3137	3125	3112	37295	3108		135.1	(23 days)	
Mean	136.1	136.6	135.6	134.0	134.4	135.3	132.3	135.0	134.7	136.4	135.9	135.3	16216	4191		135.2	(31 days)	
													135.1					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 104

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean				Day
1	139	131	134	141	137	132	142	128	132	144	134	135	1629	136				1
2	139	133	143	133	136	131	133	135	138	145	144	137	1647	137				2
3	142	130	141	139	137	138	147	134	140	137	138	140	1663	139				3
4	137	144	133	142	128	135	133	136	138	134	134	139	1633	136				4
5	123	126	146	129	130	134	140	132	144	142	126	146	1618	135				5
6	140	138	135	136	146	134	144	135	140	136	138	144	1666	139				6
7	135	142	140	136	140	139	133	135	135	130	139	130	1634	136				7
8	135	142	148	146	139	136	138	133	134	141	141	138	1671	139				8
9	144	134	141	133	133	138	136	145	143	140	144	139	1670	139				9
10	144	138	135	134	140	141	140	138	138	145	149	138	1680	140				10
11	138	142	140	142	135	133	136	139	141	142	141	139	1668	139				11
12	141	136	141	133	142	125	131	142	140	138	139	142	1650	138				12
13	145	134	131	144	136	129	120	140	133	136	136	135	1619	135				13
14	134	131	138	137	132	124	131	128	136	129	131	128	1579	132				14
15	133	130	138	136	133	134	132	134	131	135	139	130	1605	134				15
16	140	132	131	136	131	141	136	142	140	139	133	134	1635	136				16
17	135	136	135	138	136	136	134	140	132	135	139	133	1629	136				17
18	137	132	125	134	136	139	135	137	143	130	131	137	1616	135				18
19	135	140	131	142	126	142	129	139	137	136	138	135	1630	136				19
20	135	139	130	132	127	131	137	131	128	125			(1315)	(132)	10			20
21	130	138	134	139	134	133	132	137	130	129	134	131	1601	133				21
22	140	140	135	138	127	137	136	132	136				(1221)	(136)	9			22
23											140	143	(283)	(142)	2			23
24	136	139	145	132	131	140	137	137	138	150	144	144	1673	139				24
25	139	138	135	141	133	132	125	131	125	131	131	149	1610	134				25
26	145	143	135	139	141	142	132	129	138	138	141	138	1661	138				26
27	134	137	139	137	139	138	128	136	146	144	139	134	1651	138				27
28	136	141	133	142	131	135	128	138	140	135	142	138	1639	137				28
29	142	137	138	128	131	135	128	135	133	133	140	135	1615	135				29
30	136	138	141	134	135	143	135	133	142	138	134	133	1642	137				30
31	136	139	136	134	139	127	139	132	136	137	138	134	1627	136				31
Sum	3850	3821	3842	3837	3787	3786	3754	3800	3843	3849	3857	3835	45861	3822		136.5	(28 days)	
Mean	137.5	136.5	137.2	137.0	135.0	135.0	134.0	135.7	137.0	137.5	137.8	137.0	16372	4232		136.5	(31 days)	
													136.5					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 105

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	136	144	140	138	136	136	127	132	132	138	136	131	1626	136		1
2	137	144	139	135	136	132	134	133	140	147	132	140	1649	137		2
3	132	135	135	137	139	133	137	133	141	143	133	142	1640	137		3
4	137	140	146	146	141	138	137	139	139	138	147	136	1684	140		4
5	130	140	142	137	142	133	135	134	127	139	140	139	1638	136		5
6	137	137	134	138				140		138		142	(966)	(138)^{7}		6
7								136	131				(267)	(134)^{2}		7
8							142	134	143	135	141	137	(832)	(139)^{6}		8
9	141	139	128	143	150	132	139	137	134	142	145	130	1660	138		9
10	146	130	133	135	138	137	130	138	137	146	142	136	1648	137		10
11	144	137	132	137	134	133	135	140	147	141	148	144	1672	139		11
12	144	136	143	137	135	133	135	130	138	137	136	135	1639	137		12
13	137	136	133	141	135	134	129	138	142	149	136	153	1663	139		13
14	143	142	133	142	137	138	135	139	137	137	131	140	1654	138		14
15	139	133	135	133	140	126	134	129	135	141	137	135	1617	135		15
16	139	137	142	140	135	128	134	137	136	136	134	135	1633	136		16
17	134	142	148	135	136	129	130	129	138	141	140	132	1634	136		17
18	134	135	130	132	134	135	129	125	132	135	136	138	1595	133		18
19	135	131	130	136	140	133	141	136	134	130	140	130	1616	135		19
20	140	140	133	137	132	137	139	143	141	134	145	132	1653	138		20
21	133	130	145	144	131	144	133	137	131	130	138	139	1635	136		21
22	137	141	141	144	133	132	141	137	138	145	144	132	1665	139		22
23	137	134	135	137	136	135	129	133	132	142	139	135	1624	135		23
24	134	137	137	138	137								(683)	(137)^{5}		24
25											143	132	(275)	(138)^{2}		25
26	132	132	145	133	135	134	131	134	130	137	134	133	1610	134		26
27	129	135	139		130	135	126	130	146	138	138	142	(1488)	(135)^{11}		27
28	135	138	137	132	138	143	135	130	125	142	141	134	1630	136		28
29	136	135	135	144	129	135	129	133	144	132	141	139	1632	136		29
30	140	139	137	139	134	131	133	130	139	140	141		(1503)	(137)^{11}		30
31																31
Sum	3158	3151	3160	3175	3142	3090	3078	3096	3130	3202	3195	3140	37717	3143	136.7 (23 days)	
Mean	1373	137.0	137.4	1380	136.6	134.3	133.8	134.6	136.1	139.2	1389	136.5	16397 136.6	4101	136.7 (30 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 106

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1					133	133	139	132	132	133	127	139	(1068)	(134)^{8}		1
2	144	150	140	149	140	127	130	136	141	142	143	137	1679	140		2
3	134	137	136	147	144	135	140	135	142	135	142	135	1662	138		3
4	137	136	142	141	140	144	142	136	151	145	144	138	1696	141		4
5	144	142	132	137	142	142	146	141	143	140	139	137	1685	140		5
6	141	149	136	141	144	141	139	144	142	143	146	134	1700	142		6
7	137	151	147	138	144	142	149	136	144	148	139	140	1715	143		7
8	145	137	140	140	137	133	136	137	142	144	141	139	1671	139		8
9	134	134	148	140	144	144	132	144	139	147	139	143	1688	141		9
10	142	136	140	136	143	137	138	142	141	142	132	138	1667	139		10
11	127	146	144	148	138	134	139	145	143	139	137	131	1671	139		11
12	135	141	142	136	144	141	129	131	139	130	131	140	1639	137		12
13	137	136	134	149	137	136	135	136	134	134	136	131	1635	136		13
14	135	142	124	133	136	137	137	139	139	143	138	138	1641	137		14
15	142	141	137	133	138	134	140	140	149	141	142	135	1672	139		15
16	140	137	135	137	133	134	136	135	140	132	132	143	1634	136		16
17	129	138	153	140	136	125	129	127	142	134	132	137	1622	135		17
18	127	135	131	131	133	132	139	125	136	125	135	131	1580	132		18
19	133	130	134	132	135	136	134	131	138	134	123	135	1595	133		19
20	132	127	136	139	139	125	141	132	127	133	123	123	1577	131		20
21	138	135	138	132	138	131	138	136	144	138	133	136	1637	136		21
22	140	134	141	140	136	133	130	147	131	132	133	133	1630	136		22
23	134	143	131	130	140	133	124	122	129	129	131	136	1582	132		23
24	135	139	133	138	132	130	136	137	136	130	135	133	1614	134		24
25	143	137	139	141	135	136	135	136	133	141	137	137	1650	138		25
26	134	136	141	144	140	143	135	131	139	140	133	137	1653	138		26
27	144	143	133	139	136						134	138	(967)	(138)^{7}		27
28	136	144	139	145	134	140	132	141	138	143	132	136	1660	138		28
29	139	135	142	136	134	142	134	133	137	141	132	134	1639	137		29
30	138	134	132	131	147	140					144	137	(1103)	(138)^{8}		30
31	137	129	136	130	140	136	141	138	138	132	133	133	1623	135		31
Sum	3831	3877	3871	3883	3876	3803	3816	3813	3897	3857	3793	3800	46117	3842	137.2 (28 days)	
Mean	136.8	138.5	138.2	138.7	138.4	135.8	136.3	136.2	139.2	137.8	1355	1357	16471 137.3	4252	137.2 (31 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 107

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	136	124	138	135	137	138	136	140	139	141	136	140		1640	137			1
2	134	141	138	137	135	138	136	133	136	142	128	139		1637	136			2
3											138	135		(273)	(136)	2		3
4	137	137	139	145	141	139	138	142	136	141	136	133		1664	139			4
5	146	131	136	143	138	133	134	143			139	137		(1380)	(138)	10		5
6	136	149	136	135	135	141	129	137	142	141	142	145		1668	139			6
7	142	138	143	136	139	143	139	150	135	130	144	130		1669	139			7
8	138	137	143			136	141	135	134	135	131	132		(1362)	(136)	10		8
9	137	138	129	135	140	144	133	133	130	136	143			(1498)	(136)	11		9
10						144	136	142	139	137	137	134		(969)	(138)	7		10
11	142	133	138	134	142	135	142	135	131	133	130	134		1629	136			11
12	133	138	140	136	139						135	138		(959)	(137)	7		12
13	130	127	132	140	128	142	133	128			128	132		(1320)	(132)	10		13
14	137	137	132	140	136	138	133	136						(1089)	(136)	8		14
15					139	136	133	132	130	143	128	128		(1069)	(134)	8		15
16	141	134			135	134	133	135	138			137		(1087)	(136)	8		16
17	131	143			134	133	137	134			135	135		(1082)	(135)	8		17
18	135	146	141	148	136	133	124	134	137	143	132	127		1636	136			18
19	132	135	134	139		136	137	143	147	135		125		(1363)	(136)	10		19
20	132	140	125	139	137					136	139	139		(1087)	(136)	8		20
21	135	130	128			124	136	142	134	129				(1058)	(132)	8		21
22	136	130	138	135						138	129	136		(942)	(135)	7		22
23	138	133	138		127	128	129	133	140	139	138	132		(1475)	(134)	11		23
24	140	136	138	135	134	136	137	126			133	134		(1349)	(135)	10		24
25	140	137	128	129	136	137					128	134		(1069)	(134)	8		25
26	132	142	139	141	135	138	136	134	137					(1234)	(137)	9		26
27						129	137	126						(392)	(131)	3		27
28														—	—			28
29											135	140		(275)	(138)	2		29
30	143	135	140	139	136	140	133	143	132	138	138	137		1654	138			30
31																		31
Sum	1105	1103	1113	1109	1101	1107	1077	1114	1088	1109	1086	1085		13197	1100	131.5	(8 days)	
Mean	138.1	137.8	139.1	138.6	137.6	138.4	134.6	139.2	136.0	138.6	135.8	135.6		16494	3942	135.9	(29 days)	
														137.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 108

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1954

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	139	135	137			130	137	126		134	132	141		(1211)	(135)	9		1
2	137	133	134	139	134	141	134	136	137					(1225)	(136)	9		2
3														—	—			3
4						149	141	141	134	127	133	137		(962)	(137)	7		4
5	137	135	137	136	132			136	136	131	125	137		(1342)	(134)	10		5
6	135	136	140	140	136	135	133	138	136	135	136	137		1637	136			6
7	147	144	148	132	149	141	134	136	132	148	143	125		1679	140			7
8	131	136	136	133	137	135	138	131	136	127	132	127		1599	133			8
9	138	137	134	132				136	142	132	134	140		(1225)	(136)	9		9
10	131										131	137		(399)	(133)	3		10
11	130	135	139	138	141	138	134	148	140	125	131	125		1624	135			11
12	132					133	125	124	136	132	140	130		(1052)	(132)	8		12
13	140	135	138	140	135	139	138	137	136	132	127	141		1638	136			13
14	139	133	142	138	146	136	143	139	133	138	135	135		1657	138			14
15	134	140	148	137	137	134	136	136	133	129	135	126		1625	135			15
16	137	136	143	134	128	128	122	127	126	134	130	132		1577	131			16
17	135	135	136	134	134	133	128	133	137	134	136	133		1608	134			17
18	134	130	140	132	129	134	135	128	135	129	134	138		1598	133			18
19	134	135	133	143	136	128	130	125	139	132	130	124		1589	132			19
20	142	129	133	140	127	135	133	134	128	127	127	133		1588	132			20
21	131	136	134	128	136	133	135	130	134	134	133	130		1594	133			21
22	135	130	134	129	133	129	128	137	135	140	128	131		1589	132			22
23	133	134	130	123	136	134	135	130	135	134	124	131		1579	132			23
24	138	136	126	137	135	140	135	136	133	129	141	134		1620	135			24
25	131	128	144	146	137	129	133	128	133	143	130	132		1614	134			25
26	128	136	147	138	151	138	145	135	139	130	136	136		1659	138			26
27	140	142	144	132	140	144	137	130	140	136	136	137		1658	138			27
28	134	137	133	139	143	135	136	134	140	134	130	137		1632	136			28
29	136	133	145	139	124	134	133	132	131	132	138	143		1620	135			29
30	137	132	135	133	141	135	129	134	133	123	131	124		1587	132			30
31	128	131	133	143	133	138	130	135	137	138	139	130		1615	135			31
Sum	3109	3099	3181	3128	3144	3105	3080	3073	3101	3063	3062	3041		37186	3095	134.6	(23 days)	
Mean	135.2	134.7	138.3	136.0	136.7	135.0	133.9	133.6	134.8	133.2	133.1	132.2		16167	4038	134.6	(30 days)	
														1347				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 109

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JANUARY 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	134	136	129	135			141	133	130	129	131	132	(1330)	(133)	10		1
2	139	127	127	133	130	130	130	119	124	122	132	127	1540	128			2
3	139	126	125	129	131	138	139	142	130	130	137	132	1598	133			3
4	131	131	131	137	136	140	133	129	124	127	136	129	1584	132			4
5	131	128	127	133	142	140	133	128	130	130	127	131	1580	132			5
6	124	132	132	143	134	131	128	129	120	133	133	131	1570	131			6
7	132	129	130	139	136	126	136	134	133	134	140	128	1597	133			7
8	123	128	121	133	131	136	124	130	128	130	133	121	1538	128			8
9	124	130	120	130	132	136	135	136	128	123	123	117	1534	128			9
10	113	121	129	125	131	135	129	130	133	121	131	127	1525	127			10
11	129	135	131	133	129	136	137	130	130	126	129	127	1572	131			11
12	125	129	127	129	129	133	127	136	139	139	131	131	1575	131			12
13	128	132	131	130	133	132	126	130	125	130	130	124	1551	129			13
14	133	127	133	120	127	129	119	123	127	129	124	122	1518	126			14
15	124	124	127	135	130	128	130	128	126	130	131	128	1541	128			15
16	121	127	124	133	131	129	132	135	129	130	127	128	1546	129			16
17	134	126	126	127	126	134	133	135	129	124	116	130	1540	128			17
18	127	117	126	140	130	132	133	133	136	133	129	120	1556	130			18
19	123	135	127	127	129	130	137	129	138	139	129	138	1581	132			19
20	128	120	124	121	127	135	129	130	123	134	127	127	1525	127			20
21	121	130	127	129	135	125	131	119	128	133	118	125	1521	127			21
22	129	138	124	128	130	124	134	130	139	137	132	121	1571	131			22
23	133	129	142	138	134	131	140	131	134	135	130	132	1609	134			23
24	138	122	134	131	130	131	129	141	133	132	130	139	1590	132			24
25	129	136	128	145	132	134	133	140	131	136	129	144	1617	135			25
26	134	130	132	141	139	135	132	130	138	137	130	140	1618	135			26
27	136	134	134	133	135	135	132	135	141	134	132	133	1614	134			27
28	125	131	127	132	137	133	131	140	130	133	143	129	1591	133			28
29	131	130	124	126	130	136	129	132	141	132	136	137	1584	132			29
30	132	135	130	138	135	140	135	130	125	135	138	124	1597	133			30
31	135	137	126	134	134	138	135	134	135	132	129	136	1605	134			31
Sum	3871	3876	3846	3972	3965	3997	3951	3948	3927	3940	3917	3878	47088	3923	130.8	(30 days)	
Mean	129.0	129.2	128.2	132.4	132.2	133.2	131.7	131.6	130.9	131.3	130.6	129.3	15696	4056	130.8	(31 days)	
													130.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 110

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

FEBRUARY 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	139	136	138	138	130	138	137	143	136	133	127	142	1637	136			1
2	135	133	135	134	135	141	139	139	143	133	134	138	1639	137			2
3	132	133	136	136	137	132	130	133	142	145	137	146	1639	137			3
4	130	126	134	134	137	133	144	142	137	137	138	139	1631	136			4
5	127	132	130	137	129	135	130	137	135	136	138	132	1598	133			5
6	133	132	139	131	123	138	143	135	132	132	132	131	1601	133			6
7	133	127	132	133	131	137	136	132	122	143	142	132	1600	133			7
8	135	135	140	137	141	140	142	139	139	131	135	140	1654	138			8
9	135	137	127	137	134	130	144	130	131	142	135	134	1616	135			9
10	136	136	142	132	145	145	136	133	134	133	141	128	1641	137			10
11	132	137	131	141	131	142	135	139	132	137	140	141	1638	136			11
12	136	130	140	144	136	147	126	143	137	131	134	130	1634	136			12
13	128	125	131	132	142	138	143	134	135	145	132	139	1624	135			13
14	136	138	130	130	142	139	144	141	129	146	130	128	1633	136			14
15	129	135	140	128	131	130	126	136	134	137	139	137	1602	134			15
16	144	139	147	140	136	141	136	136	130	132	132	132	1645	137			16
17	135	137	136	144	134	138	128	124	123	131	132	137	1599	133			17
18	129	129	136	134	130	136	129	131	123	131	134	131	1573	131			18
19	129	134	131	136	134	137	133	124	130	129	131	130	1578	132			19
20	127	132	135	127	138	130	134	127	129	134	135	130	1578	132			20
21	132	130	136	127	129	127	127	136	136	123	122	131	1556	130			21
22	127	137	128	133	135	131	136	138	147	137	132	137	1618	135			22
23	134	132	126	124	133	130	139	136	125	137	128	133	1577	131			23
24	132	127	138	132	132	132	130	128	130	130	131	136	1578	132			24
25	128	129	128	146	133	138	129	137	143	135	142	139	1627	136			25
26	133	135	145	140	130	134	135	137	138	127	126	135	1615	135			26
27	128	130	132	136	149	139	133	134	133	134	130	143	1621	135			27
28	131	128	137	135	131	137	136	139	140	136	130	128	1608	134			28
29																	29
30																	30
31																	31
Sum	3705	3711	3780	3778	3768	3815	3780	3783	3745	3777	3739	3779	45160	3765	134.5	(28 days)	
Mean	132.3	132.5	135.0	134.9	134.6	136.2	135.0	135.1	133.8	134.9	133.5	135.0	1612.8				
													134.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 111

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MARCH 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	122	127	129	138	134	132	134	140	136	139	138	130		1599	133			1
2	122	130	130	134	139	134	138	143	142	137	144	142		1635	136			2
3	138	139	139	139	135	136	148	136	144	141	132	132		1659	138			3
4	133	139	134	142	137	140	133	137	140	141	133	134		1643	137			4
5	135	122	136	135	129	138	136	140	137	135	135	142		1620	135			5
6	137	132	138	138	143	135	138	132	134	133	136	138		1634	136			6
7	130	134	133	136	144	147	132	132	138	144	134	141		1645	137			7
8	139	132	132	138	132	132	138	134	133	136	135	132		1613	134			8
9	132	132	128	134	137	144	138	138	136	136	136	135		1626	136			9
10	131	131	136	135	140	134	140	145	134	132	133	130		1621	135			10
11	131	133	141	145	134	134	144	146	133	131	136	136		1644	137			11
12	129	135	139	143	137	134	140	137	140	135	136	139		1644	137			12
13	139	137	143	132	140	142	140	140	138	136	140	131		1658	138			13
14	131	135	132	133	134	135	130	140	144	138	135	136		1623	135			14
15	127	135	127	137	146	146	142	143	136	139	140	138		1656	138			15
16	135	136	146	143	141	128	137	135	134	132	133	128		1628	136			16
17	135	130	134	131	137	134	139	130	136	140	139	137		1622	135			17
18	128	129	128	132	134	133	128	131	131	127	134	126		1561	130			18
19	134	132	135	128	124	127	124	129	133	133	136	137		1572	131			19
20	146	135	123	136	133	137	144	133	138	131	139	137		1632	136			20
21	130	127	135	128	134	134	136	128	129	132	131	133		1577	131			21
22	132	133	139	127	144	142	134	142	134	140	133	129		1629	136			22
23	133	137	129	129	133	134	129	131	133	130	128	133		1579	132			23
24	127	121	128	131	133	136	124	142	132	125	129	128		1556	130			24
25	127	129	127	129	140	132	130	134	133	137	130	138		1586	132			25
26	123	131	134	131	137	130	143	128	129	132	127	126		1571	131			26
27	137	126	118	130	129	132	130	140	135	123	129	130		1559	130			27
28	125	126	125	137	133	126	137	133	133	133	126	131		1565	130			28
29	127	128	132	125	125	136	134	135						(1042)	(130)[8]			29
30	128	138	128	129	136	134	146	133						(1072)	(134)[8]			30
31	134	137	132	142	129	133	140	132	129	131	135	134		1608	134			31
Sum	3822	3822	3850	3913	3942	3921	3946	3951	3924	3899	3892	3883		46765	3896	134.3	(29 days)	
Mean	131.8	131.8	132.8	134.9	135.9	135.2	136.1	136.2	135.3	1344	134.2	133.9		16125	4160	134.2	(31 days)	
														134.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 112

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

APRIL 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	135	133	133	133	132	131	132	141	140	134	133	130		1607	134			1
2	136	136	131					139	144	136	131	129		(1082)	(135)[8]			2
3	140	137	138	138	136	136	136	138	132	133	137	142		1643	137			3
4	132	134	137	130	127	133	137	130	143	136	127	128		1594	133			4
5	121	139	134	128	133	134	127	141	130	143	130	139		1599	133			5
6	133	137	133	131	123	138	135	133	133	141	130	134		1601	133			6
7	131	123	139	134	138	145	130	133	132	135	129	130		1599	133			7
8	131	128	130	132	140	125	136	129	131	141	135	128		1586	132			8
9	130	136	127	137	135	138	133	139	133	125	133	127		1593	133			9
10	132	126	137	138	134	135	132	134	131	127	140	133		1599	133			10
11	131	127	133	129	130	132	136	130	139	139	129	133		1588	132			11
12	128	138	135	146	132	141	136	141	144	132	139	132		1644	137			12
13	142	138	136	145	145	139	137	137	145	141	136	138		1679	140			13
14	134	137	133	131	139	136	129	136	132	133	141	134		1615	135			14
15	129	128	129	137	134	135	136	127	132	124	130	123		1564	130			15
16	140	134	134	137	128	136	136	137	133	123	138	127		1603	134			16
17	130	128	128	131	136	132	131	141	134	132	130	137		1590	132			17
18	136	137	136	140	136	129	138	138	138	147	138	144		1657	138			18
19	139	133	133	139	142	139	135	138	140	139	138	134		1649	137			19
20	130	136	134	133	138	135	134	140	140	132	134	144		1630	136			20
21	134	138	131	146	142	148	131	145	134	148	131	145		1673	139			21
22	134	134	135	139	136	132	142		134	133	132	132		(1483)	(135)"			22
23	134	134	136	136	140	127	137	135	135	145	136	140		1635	136			23
24	131	138	134	137	142	140	140	129	130	132	140	135		1628	136			24
25	134	129	124	134	132	137	137	144	131	142	141	133		1618	135			25
26																		26
27																		27
28																		28
29																		29
30									136	128	138	138		(540)	(135)[4]			30
31																		31
Sum	3057	3068	3064	3122	3114	3121	3091	3136	3112	3124	3095	3090		37194	3098	134.7	(23 days)	
Mean	132.9	133.4	133.2	135.7	135.4	135.7	134.4	136.3	135.3	135.8	134.6	134.3		16170	3503	134.7	(26 days)	
														134.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 113

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

MAY 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	135	131	129	136	138	142	145	142	133	135	140	142		1648	137			1
2	130	136	136	137	143	138	131	138		132	133	129		(1483)	(135)	11		2
3	140	141	136	149	140	134	137	131	129	134	141	137		1649	137			3
4	130	131	132	137	133	137	138	132	136	138	140	132		1616	135			4
5	131	132	134	135	143	138	138	140	137	138	140	139		1645	137			5
6	126	118	132	127	128	136	136	133	134	135	122	132		1559	130			6
7	133	125	120	125	125	142	127	136	137	131	133	128		1562	130			7
8	133	127	134	136	137	135	140	127	140	139	135	137		1620	135			8
9	129	133	130	134	132	134	143	136	137	139	132	138		1617	135			9
10	122	130	137	131	140	131	132	138	126	138	131	139		1595	133			10
11	131	135	127	132	142	138	131	137	142	133	133	140		1621	135			11
12	134	139	133	137	138	137	140	141	130	135	136	133		1633	136			12
13	133	139	133	135	144	139	136	140	131	136	143	128		1637	136			13
14	131	128	125	131	139	131	136	135	132	139	136	133		1596	133			14
15	125	129	121	133	129	138	138	135	126	128	129	129		1560	130			15
16	129	134	130	131	133	134	136	125	142	135	134	134		1597	133			16
17	139	131	138	134	136	133	141	136	136	136	136	134		1630	136			17
18	135	129	134	130	135	136	132	131	138	134	138	137		1609	134			18
19	134	140	136	143	138	132	141	136	124	138	137	130		1629	136			19
20	135	131	141	126	127	138	138	136	135	137	133	135		1612	134			20
21	135	133	138	134	139	144	139	134	134	142	144	137		1653	138			21
22	139	134	132	125	142	147	143	135	142	138	142	132		1651	138			22
23	143	148	144	137	136	129	135	139	134	131	136	140		1652	138			23
24	149	139	136	139	124	137	138		139	133	134	135		(1503)	(137)	11		24
25	136	142	141	136	140	135	136			133	133	140		(1372)	(137)	10		25
26	140	139	135	126	136	137	137	134	125	140	133	144		1626	136			26
27	139	132	131	137	131	122	129	126	137	134	133	132		1583	132			27
28	131	133	123	130	131	125	132	138	131	128	130	132		1564	130			28
29	133	129	128	132	130	140	131	125	128	137	131	130		1574	131			29
30	129	137	133	144	137	137	135	132	133	139	133	134		1623	135			30
31	138	141	136											(415)	(138)	3		31
Sum	3594	3588	3566	3607	3659	3666	3686	3630	3609	3667	3651	3638		43561	3630	134.4	(27 days)	
Mean	133.1	132.9	132.1	133.6	135.5	135.8	136.5	134.4	133.7	135.8	135.2	134.7		16133	4177	134.7	(31 days)	
														134.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 114

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JUNE 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	142	132	132	136	142	134	135	135	140	140	139	133		1640	137			1
2	132	131	132	130	136	136	130	137	133	130	126	140		1593	133			2
3	129	143	129	128	127	135	130	143	137	138	136	136		1611	134			3
4	134	131	128	132	141	130	131	135	135	128	136	130		1591	133			4
5	135	126	124	125	127	133	137	135	130	133	134	129		1568	131			5
6	122	127	127	123	129	134	125	129	128	120	128	126		1518	126			6
7	112	125	131	136	133	131	139	127	128	121	129	128		1540	128			7
8	127	123	129	125	124	129	128	136	121	131	129	129		1531	128			8
9	127	125	126	131	133	123	131	133	139	130	132	128		1558	130			9
10	125	130	128	135	128	141	132	145	133	133	127	129		1586	132			10
11	136	136	134	130	134	135	130	133	128	136	127	125		1584	132			11
12	126	137	132	139	135	136	145	138	140	132	132	137		1629	136			12
13	125	134	122	129	126	123	137	133	139	134	135	134		1571	131			13
14	119	124	134	124	129	124	130	130	134	128	138	132		1546	129			14
15	120	128	133	125	129	130	132	136	134	140	128	134		1569	131			15
16	137	133	133	134	134	127	131	134	131	133	127	131		1585	132			16
17	135	136	136	134	142	140	135	129	128	133	137	132		1617	135			17
18	130	136	133	132	138	137	137	133	138		133	140		(1487)	(135)	11		18
19	130	141	126	131	133	138	135		138	137		138		(1347)	(135)	10		19
20	139	140	143	135	144	141	129	140	141		136	142		(1530)	(139)	11		20
21	133	134	135	142			139	141		141	138			(1103)	(138)	8		21
22		140	140			136				137	137	141		(831)	(138)	6		22
23	135		138	138		133	138			147	141	141		(1111)	(139)	8		23
24	143					137		135	133					(548)	(137)	4		24
25	138						144	137	134	136	134	136		(959)	(137)	7		25
26	135	136	137		128		138			134	125	133		(1066)	(133)	8		26
27	134			131						130				(395)	(132)	3		27
28	129								135					(264)	(132)	2		28
29					138									(138)	(138)	1		29
30							135							(135)	(135)	1		30
31																		31
Sum	2183	2221	2210	2216	2249	2241	2258	2288	2258	2240	2240	2233		26837	2238	131.6	(17 days)	
Mean	128.4	130.6	130.0	130.4	132.3	131.8	132.8	134.6	132.8	131.8	131.8	131.4		1578.7	4006	133.5	(30 days)	
														131.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 115

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

JULY 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1									135					(135)	(135)	1			1
2	127				130		135							(392)	(131)	3			2
3						127								(127)	(127)	1			3
4														—	—				4
5											126	135		(261)	(130)	2			5
6	134	133	131	137	132	139	136	128	135	139	131	133		1608	134				6
7	126	130	132	132	140	124	145	132	130	141	134	140		1606	134				7
8	132	139	132	135	137	133	131	134	129	124		140		(1466)	(133)	11			8
9	130	137	130	135	142	134	146	136	135	139	136	137		1637	136				9
10	136	138	146	141	143	140	144	148	145	131	142	136		1690	141				10
11	135	142	146	141	139	142	134	144	150	141		139		(1553)	(141)	11			11
12	148	133	134	141	145	148	145		129					(1123)	(140)	8			12
13	138	135	134	133	139	140	142			140	140	146		(1387)	(139)	10			13
14	136	139	141	147	138	146	132	138	133	134	128	135		1647	137				14
15	130	137	129	136	142	135	131	145	139	136	135	126		1621	135				15
16	127	130	135	132	132		140	132	136	137		126		(1327)	(133)	10			16
17	130	137	136	136	140	129	132	139	137	126	136	130		1608	134				17
18	133	131	121	134	140	133	132	149	134	137		139		(1483)	(135)	11			18
19	136	134	140	135	145	146	142	139	137	149		140		(1543)	140)	11			19
20	144	138	139	142	142	144	136	142	143	133	135	143		1681	140				20
21	138	137	137	134	135	139	138	147	134	137	139	138		1653	138				21
22	141	140	137	141	139	145	135	145	145	141		134		(1543)	(140)	11			22
23	143	149	151	142	143	141	132	139	133	141	140	146		1700	142				23
24	142	142	136	146	142	134	141	137	136	138	138	131		1663	139				24
25	145	139	136	137	143	130	137	138	136	130	128	130		1629	136				25
26	127	129	135	139	131	127	134	136	130	131	126	133		1578	132				26
27	133	126	138	144	137	131	133	133	135	137	135	135		1617	135				27
28	130	128	126	138	137	130	131	130	132	140	136	126		1584	132				28
29	124	131	132	137	137	137	136	131	120	131		128		(1444)	(131)	11			29
30	123	133	133	141	140	134	142	131	134	132	126	131		1600	133				30
31	126	136	131	133	129	136	139	126	137	133	133	132		1591	133				31
Sum	2273	2308	2307	2360	2356	2293	2329	2325	2304	2298	2278	2282		27713	2311		135.9	(17 days)	
Mean	133.7	135.8	135.7	138.8	138.6	134.9	137.0	136.8	135.5	135.2	134.0	134.2		1630.2	4066		135.5	(30 days)	
														135.8					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 116

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

AUGUST 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1	138	130	130	134	141	133	137	134	126	129	133	135		1600	133				1
2	135	130	128	133	137	136	147	136	132	137	132	133		1616	135				2
3	134	134	136	139	135	138	133	135	135	143	132	131		1625	135				3
4	137	144	133	133	137	132	141	146	137	137	129	140		1646	137				4
5	138	142	137	146	147	130	136	140	133	139	134	137		1659	138				5
6	129	122	129	134	130	132	134	136	133	131	135	129		1574	131				6
7	131	132	122	127	127	134	142	137	132	138	124	129		1575	131				7
8	135	133	121	128	138	134	137	142	140	139	145	137		1629	136				8
9	135	133	149	138	132	140	138	131	139	137	133	131		1636	136				9
10														—	—				10
11	146	138	137	143	143	135	137	138	139	139	137	143		1675	140				11
12	139	141	142	142	146	143	144	139	148	143	140	147		1714	143				12
13	149	143	135	143	143	147	134	136	134	140	137	131		1672	140				13
14	142	139	137	142	138	138	147	142	144	135	144	143		1691	141				14
15	138	136	132	142	141	143	153	140	137	141	137	145		1685	140				15
16	137	137	135	145	141	147	141			142	145	148		(1418)	(142)	10			16
17	150	140	143	144	145			155	145	140	146	141		(1449)	(145)	10			17
18	140	143	146	142	134	138	146	147	150	143	142	139		1710	142				18
19	139	137	140	147	155	143	152	151	146	142				(1452)	(145)	10			19
20	142	139	146	141	143	141	137	139	143	138	147	137		1693	141				20
21	146	144	136	141	141	140	143	143	137	140	143	136		1690	141				21
22	135	142	130	137	136	137	141	142	137	137	146	143		1663	139				22
23	144	136	137	145	146	139	149	145	135	140	147	139		1702	142				23
24	137	139	144	142	139	139	149	137	146	149	133	143		1697	141				24
25	145	130	139	130	132	138	141	141	139	136	138	138		1647	137				25
26	130	136	143	133	142	139	135	130	133	140	134	138		1633	136				26
27	129	137	139	137	136	139	133	139	139	142	143	136		1649	137				27
28	133	145	136	138	141	147	146	133	142	142	131	131		1665	139				28
29	130	133	128	133	138	130	136	145	134	136	142	137		1622	135				29
30	129	129	132	135	140	142	132	141	138	138	132	132		1620	135				30
31	133	134	129	135	142	135	141	139	133	140	143	142		1646	137				31
Sum	3699	3684	3653	3713	3745	3719	3789	3753	3715	3749	3713	3702		44634	3718		137.7	(27 days)	
Mean	137.0	136.4	135.3	137.5	138.7	137.7	140.3	139.0	137.6	138.9	137.5	137.1		16530	4150		138.3	(30 days)	
														137.8					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 117

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

SEPTEMBER 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	137	137	137	137	141	136	142	143	138	136	130	130	1644	137			1
2	133	135	137	131	139	151	145	146	143	133	136	131	1660	138			2
3	141	128	129	138	142	149	143	139	142	142	134	126	1653	138			3
4	138	132	142	137	149	139	142	141	141	149	144	136	1690	141			4
5	139	136	137	138	128	138	148	139	141	149	145	140	1678	140			5
6	135	141	138	144	143	133	140	136	137	130	132	141	1650	138			6
7	136	135	135	140	141	137	144	136	137	143	141	141	1666	139			7
8	137	133	138	140	133	141	138	142	132	134	137	138	1643	137			8
9	130	137	135	147	143	132	141	133	135	143	143	134	1653	138			9
10	135	136	139	145	143	145	135	132	146	130	141	137	1664	139			10
11	139	142	142	143	137	135	136	143	137	130	142	132	1658	138			11
12	138	145	141	142	140	138	142	137	137	147	141	133	1681	140			12
13	142	138	136	144	147	145	136	141	146	137	145	138	1695	141			13
14	135	139	127	138	136	143	140	140	138	142	136	134	1648	137			14
15	141	138	131	139	140	142	143	145	139	138	135	140	1671	139			15
16	141	137	137	144	148	134	146	143	150	140	143	146	1709	142			16
17	138	142	142	151	144	142	141	139	147	144	142	130	1702	142			17
18	143	136	146	142	140	134	140	146	138	144	145	138	1692	141			18
19	140	139	142	147	142	141	135	141	140	137	144	148	1696	141			19
20	142	150	147	149	149	138	138	139	139	143	142	149	1725	144			20
21	137	137	145	142	144	142	145	138	143	139	147	138	1697	141			21
22	141	141	141	148	139	144	145	129		124	133	132	(1517)	(138)	"		22
23	132	131	142	136	145	128	139	130	132	134	137	141	1627	136			23
24	139	131	134	131	138	130	143	134			135	146	(1361)	(136)	10		24
25	125	135	138	146	138	140	141	141	146	137	137	126	1650	138			25
26	133	145	128	135	137	135	133	134		137	142	144	(1503)	(137)	"		26
27	124	132	130	133	138	140	137	131		134	133	136	(1468)	(133)	"		27
28	127	134	133	134	130	142	135	133	134	131	132	133	1598	133			28
29	134	132	134	142	140	137	138	135		142	140	140	(1514)	(138)	"		29
30	139	131	132	131	150	131	131	127	137	136	136	140	1621	135			30
31																	31
Sum	3420	3424	3448	3525	3532	3476	3506	3470	3495	3468	3487	3420	41671	3473	138.9	(25 days)	
Mean	136.8	137.0	137.9	141.0	141.3	139.0	140.2	138.8	139.8	138.7	139.5	136.8	1666.8	4155	138.5	(30 days)	
													138.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 118

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

OCTOBER 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	136	134	135	147	138	136	137	136	138	138	135	133	1643	137			1
2	136	129	144	144	136	145	129	139	140	136	136	141	1655	138			2
3	143	143	150	140	144	146	140	133	131	131	135	128	1664	139			3
4	128	133	133	138	150	151	141	132	133	126	136	138	1639	137			4
5	133	125	137	134	132	133	141	136	129	135	135	136	1606	134			5
6	129	127	127	140	126	138	137	126	127	130	136	129	1572	131			6
7	130	135	135	127	133	131	133	125	135	126	137	137	1584	182			7
8			136	131	138	133	129	128		126	136	128	(1185)	(132)	9		8
9	140	137	132	135	139	134	132	135	129	135	124	138	1610	134			9
10	130	125	134	134	134	126	137	125	134	135	132	140	1586	132			10
11	135	128	136	136	136	134	136	128	134	136	136	136	1611	134			11
12	137	130	136	131	135	136	130	134	128	131	129	130	1587	132			12
13	126	126	130	126	137	130	135	131	131	130	126	141	1569	131			13
14	129	124	139	135	136	140	136	135	137	130	131	132	1604	134			14
15	126	135	134	133	139	133	133	138	138	129	135	132	1605	134			15
16	126	140	137	140	134	131	141	134	134	123	128	133	1601	133			16
17	132	133	125	130	130	130	125	145	130	133	130	129	1572	131			17
18	133	136	137	137	136	139	140	142	134	136	136	137	1643	137			18
19	134	136	135	134	152	136	136	141	139	137	139	138	1657	138			19
20	138	125	135	139	140	142	146	136	138	144	129	131	1643	137			20
21	134	137	143	135	132	137	130	137	136	140	133	134	1628	136			21
22	140	143	129	140	137	142	137	138	130	130	144	143	1653	138			22
23	142	142	134	130	141	145	132	138	137	140	131	138	1650	138			23
24	131	131	141	134	128	132	142	128	133	134	133	132	1599	133			24
25	135	139	137	137	137	147	142	147	142	144	147	136	1690	141			25
26	133	135	140	139	136	131	137	138	145	140	129	132	1635	136			26
27	134	136	140	139	141	140	137	133	139	146	138	141	1664	139			27
28	143	129	136	139	142	143	147	136		145		140	(1400)	(140)	10		28
29	146	145	143	143	143	144	133	149	137	136	146	135	1700	142			29
30	133	129	132	145	145	140	148	136	130	149	137	137	1661	138			30
31	137	125	140	148	145	141	146	135		139	133		(1389)	(139)	10		31
Sum	3749	3738	3810	3822	3847	3849	3823	3795	3768	3780	3763	3787	45531	3796	135.6	(28 days)	
Mean	133.9	133.5	136.1	136.5	137.4	137.5	136.5	135.5	134.6	135.0	134.4	135.2	1626.1	4207	135.7	(31 days)	
													135.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 119

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

NOVEMBER 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	140	151	136	138	147	140	139	146	135	138	131	142	1683	140			1
2	149	132	145	142	140	138	144	134	140	140	141	142	1687	141			2
3	137	129	148	137	137	136	140	143	138	146	136	139	1666	139			3
4	130	134	143	140	137	133	137	145	137	143	131	140	1650	138			4
5	142	137	136	143	137	151	141	134	137	135	134	138	1665	139			5
6	136	135	143	148	146	136	142	148	140	142	137	140	1693	141			6
7	135	139	147	143	133	150	140	144	143	137	146	142	1699	142			7
8	132	144	145	145	145	144	146	146	144	152	139	143	1725	144			8
9	142	126	124	137	133	148	147	144	142	144	144	145	1676	140			9
10	133	137	134	150	150	138	143	136	148	143	143	140	1695	141			10
11	149	138	136	141	141	146	142	152	146	146	139	142	1718	143			11
12	130	136	137	143	146	142	150	136	146	134	141	136	1677	140			12
13	138	144	144	144	138	144	138	140	144	150	136	137	1697	141			13
14	134	136	140	133	143	140	134	143	141	141	139	142	1666	139			14
15	141	127	138	140	147	150	149	141		146	139	136	(1554)	(141)	11		15
16	141	138	136	140	139	144	145	143	140	139	142	133	1680	140			16
17	134	139	135	137	141	144	139	139	144	140	130	135	1657	138			17
18	129	137	142	137	145	142	142	138	136	142	134	136	1660	138			18
19	133	136	126	137	141	144	139	143	147	129	125	126	1626	136			19
20	120	123	123	127	134	132	136	134	133	125	120	134	1541	128			20
21	128	123	131	133	136	134	130	132	136	127	135	127	1572	131			21
22	129	132	136	145	137	134	149	137	142	132	133	139	1645	137			22
23	136	139	141	134	145	130	143	136	128	129	139	141	1641	137			23
24	142	134	136	136	142	142	133	140	131	134	142	141	1653	138			24
25	134	127	132	134	135	135	136			133	129	137	(1332)	(133)	10		25
26	140	137	136	140	140	144	136	133	135	136	142	142	1661	138			26
27	137	132	137	133	134	132	138	129	126	143	136	139	1616	135			27
28	133	133	136	139	151	138	138	135	150	139	142	143	1677	140			28
29	149	136	139	140	143	140	139	131	137	139	134	138	1665	139			29
30	139	133	134	140	135	139	138	141	134	142	134	137	1646	137			30
31																	31
Sum	3817	3790	3846	3902	3936	3925	3928	3902	3900	3887	3825	3879	46537	3880	138.6	(28 days)	
Mean	136.3	135.4	137.4	139.4	140.6	140.2	140.3	139.4	139.3	138.8	136.6	138.5	1662.2	4154	138.5	(30 days)	
													138.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 120

COSMIC RAY RESULTS FROM HUANCAYO MAGNETIC OBSERVATORY

DECEMBER 1955

Bihourly Mean Values of Departures from Balance, +60, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 510 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	134	133	133	138	140	130	136	139	133	127	131	129	1603	134			1
2	128	127	137	138	142	142	134	136	133	132	133	133	1615	135			2
3	131	138	138	138	142	139	133	137	139	134	130	138	1637	136			3
4	141	134	131	142	138	142	133	140	136	134	139	140	1650	138			4
5	129	133	134	136	134	142	138	134	137	141	138	126	1622	135			5
6	125	111	116	124	125	133	122	123	131	130	126	117	1483	124			6
7	122	126	126	124	126	126	126	127	136	131	136	121	1527	127			7
8	124	118	130	128	130	130	128	135	136	135	136	129	1559	130			8
9	123	126	138	133	130	129	131	134	132	132	130	123	1561	130			9
10	129	127	141	131	139	132	130	132	129	147	133	131	1601	133			10
11	130	129	130	131	125	133	133	143	140	125	128	131	1578	132			11
12	133	131	131	134	136	134	135	133	134	135	132	132	1600	133			12
13	136	133	133	133	142	134	140	135	133	137	133	139	1628	136			13
14	131	129	129	143	129	136	137	145	134	137	129	132	1611	134			14
15	141	138	138	137	134	138	136	133	135	128	138	134	1630	136			15
16	140	139	140	140	144	140	139	126	137	140	134	136	1655	138			16
17	142	134	134	134	147	149	146	143	141	139	138	132	1679	140			17
18		139	137	140	137	143	141	133		145	140	133	(1388)	(139)	10		18
19	130	140	145	142	141	129	138	140	143	140	139	137	1664	139			19
20	131	140	142	144	146	147	149	139	135	143	141	135	1692	141			20
21	143	134	134	132	143	142	140	138	136	134	137	138	1651	138			21
22	129	134	134	143	139	140	141	135	136	138	140	133	1642	137			22
23	129	135	141	142	142	135	133	135	133	134	137	134	1630	136			23
24	132	125	134	140	127	138	144	142	135	128	140	133	1618	135			24
25	138	135	135	141	136	136	133	137	151	133	131	141	1647	137			25
26	126	143	133	134	135	135	134	136	132	144	138	140	1630	136			26
27	139	132	135	136	140	144	144	139	143	142	145	139	1678	140			27
28	133	129	145	139	138	139	138	138	142	144	138	150	1673	139			28
29	141	147	144	132	135	144	141	138	129	144	137	139	1671	139			29
30	145	139	138	141	143	139	145	132	138	140	139	142	1681	140			30
31	143	143	138	136	137	144			144	143	142	142	(1412)	(141)	10		31
Sum	3855	3839	3919	3950	3968	3977	3957	3944	3949	3948	3926	3884	47116	3928	135.4	(29 days)	
Mean	132.9	132.4	135.1	136.2	136.8	137.1	136.4	136.0	136.2	136.1	135.4	133.9	1624.5	4208	135.7	(31 days	
													135.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 121

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	105	110	80	81	92	94	95	78	96	97	102	101^{e}		1
2	109	107	77^{c}	84	90	92	96		102	104	103	100		2
3	101	108	84^{c}	88	93	93	92		102	102^{b}	103	107		3
4	100	99	89	91	93	93	93		105	101	105^{g}	109		4
5	103	82	89	91	90^{b}	91	93	88^{f}	105	101	96^{d}	103		5
6	109	70	94	96	76	90	92	91	106	97^{h}	98	103		6
7	108	64	92	96	70	83	92	90	102	106^{e}	98	103		7
8	109	57	94	93	66	84	91	97	103	103	100^{b}	103		8
9	110	62	89	91	74	84	90	94	102	106	102	101		9
10	107	74	78	93	76	84	92	92	102	104	98^{a}	106		10
11	110	75	83	90	75	86	93	91	104	102	104^{e}	104		11
12	109	81	88^{h}	86	78	85	96	89	102	102	99	106		12
13	108	85	87^{e}		80	89	99	89	103	101	105	105		13
14	111	77	91		82	90	98	90	108	100	106	107		14
15	110	59	92		84	87	93	87	103^{d}	94	95	110		15
16	107	66	92		85	92	94	85	106^{e}	93	92	108		16
17	107	75	94^{e}		83	96	95	90	99	99	94^{a}	107		17
18	108	79	96		82	94	93	94	92	101	105^{k}	109		18
19	108	77^{c}	93		86	89	93	97	81	100	100^{f}	105		19
20	106	66	95		87	87	92	96^{c}	80	94	100^{h}	106		20
21	107^{a}	70	89		86	81	92	100^{f}	80	91	104^{a}	106		21
22	109^{e}	73	92		85	84	90	103	67	97	102^{f}	103^{c}		22
23	108	79	92		87	86	90	102	65	95	102^{f}	101^{e}		23
24	104	78	87		88	86	86	100	79	98^{h}	92^{a}	101		24
25	105	80	90		86	88	91	95	86	100^{e}	94	103		25
26	106	87	89		91	89	89	94	89	104	98	102		26
27	106	87	90		89	89	16	97	92	99	100	102^{c}		27
28	106	85	68	86	91	84	41	97	89	101	101	104^{e}		28
29	108		74	90	94	86	57	103	96	104	101	102		29
30	109		74	93	90	88	64	105	98	101	103^{c}	102		30
31	110		81		93		74	99		101		107		31
Mean	107.2	79.0	87.2	89.9	84.6	88.1	85.8	94.0	94.8	99.9	100.1	104.4		
	366	333	348	180	370	360	372	321	351	344	294	351	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 122

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	106	106	105	93	82	71	72	88	73	67	79	82		1
2	103	103	106	91	77	74	72	88	73	72	77	79		2
3	107	107	101	92	80	75	76	82^{b}	67	81	79	86		3
4	104	106	100	94	83	69	77	83^{b}	64	79	81	84		4
5	100	110	100	99	87	73	76	85	65	82	81	83		5
6	104^{c}	108	104	102	85	74	78	82^{c}	62	83	83	84		6
7	104^{d}	104	98	100	96	68	83	79	67	84	86	82		7
8	110	102	97	102	96	69	80	79	68	84	85	81		8
9	109	101	101	86	96	71	81	81	75	82	77	78		9
10	108	102	103	87	98	70	83	79	75	80	72	81		10
11	109	100	107	91	97	69	87	80	71^{k}	77	75	82		11
12	112	105	93	90	96	67	83	83	68^{e}	78^{h}	79	84		12
13	111^{c}	104	93	91	99	71	83	82	77	70^{d}	81	86		13
14	110^{e}	99	84	92	96	67	77	78	74	73	83	89		14
15	114	103	85	96	91	63	77	70	78	75	84	90		15
16	103	103^{e}	70	99	88	67	78	59	76	78	86	88		16
17	102^{c}	108	82	86	87	70	78	62	79	78^{c}	85	93		17
18	103^{d}	107	87	71	93	69	59	63	81	86^{e}	87^{a}	89		18
19	104	105	91	71	92	71	64	68	81	83	83	92		19
20	106	110	92	70	92	72	65	71	81^{h}	79	84	96		20
21	105	111	94	83	90	74	66	70	84^{e}	81	84	96		21
22	108	110	93	88	96	71	70	67	81	81	90	91		22
23	108	110	94	92	88	66	74	64	75	79	94	90		23
24	99	102	90	85	81	66	76	67	74	78	90	90		24
25	95	102	96	99	79	66	78	70	76	77	97	89		25
26	97	101	98	92	87	62	84	79	69	76	86	92		26
27	98	103	99	87	78	69	87	79	74	79	88	95		27
28	101	105	102	86	83	70	86	80	75	79	82	93		28
29	103		100	82	71	70	88	80	77	80	81	92		29
30	103		98	86	70	70	86	79	75	81	79	93		30
31	107		98		68		86	77		79		93		31
Mean	104.9	104.9	95.5	89.4	87.2	69.5	77.9	75.9	73.8	78.7	82.9	87.8		
	350	331	372	360	372	360	372	365	334	352	359	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 123

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	92	92	104	106	107	103	112	111	98	94	108	106		1
2	90	94	99	104	104	104	111	105	89^{a}	95	102	104		2
3	93	97	103	103	105	105	113	114	95	95	103	104		3
4	92	91	99^{f}	100	99	104	110	112	95	100	108	107^{b}		4
5	90	93	102	98^{f}	96	108	106	109	97	106	108^{c}	111		5
6	90	97^{a}	99	102^{h}	100	113	108	113	102	105	102^{j}	113^{b}		6
7	91	101	105	96	98	106	103	103	104	101^{b}	108	113		7
8	94^{h}	101	101	96	98	109	104^{b}	108	103		110	110		8
9	93^{f}	104	104	99	85	109	105	109	99		108	111		9
10	87^{j}	98	105	103	78	106	101	101	96		112^{d}	109		10
11	92^{f}	101	104	106	81	104	94	97^{d}	93^{j}	100^{a}		108		11
12	94	101	92	104	82^{b}	97	95	99^{a}	94	102		106		12
13	96	100	98	104	78	104	99	97	92	103	102^{a}	104		13
14	98	99^{b}	96	105	85^{c}	99	103	99	94	98	99	99		14
15	101	101	82	96	81	101	102	101	100	102	102	104		15
16	97	101	80	100	82	105	99	106	102	100	106	101		16
17	101	99	91^{f}	97	78	106	101	106	105	99	103	99		17
18	98	101	95^{a}	97	83	107	100	107	104	82	102	99		18
19	97	103	92	99	88	107	104	110	103	90	101	102		19
20	95	100	94	101	88	102	106	107	100	94	102	99		20
21	98	100	92	102	92	106	108	100	102	93	98	106		21
22	95	100	93^{h}	104	94	106	110	101	104	90^{a}	98	102		22
23	94	102	97	103	95	106	106	98	98	95	100	107		23
24	95	102	96	99	96	106	105,	101	100	98	99	103		24
25	96	101	99	102	99^{h}	105	107	101	101	104	94	104		25
26	98	100	98^{f}	101	102^{a}	105	108	106	99	104	95	105		26
27	99	97^{d}		107	103	104	104	104	101	107	97	103		27
28	98	100		104	106	107	108	106	104	106	98	104		28
29	91	101		109	105	108	108	99	104	108	102	106		29
30	95			107	98	109	109	98	105^{c}	107	102	106^{b}		30
31	96				98		111	96		105		99		31
Mean	94.7	99.2	96.9	101.8	92.9	105.4	105.2	104.0	99.4	99.4	102.5	105.0		
	342	337	281	346	354	360	370	363	342	324	314	366	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 124

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	97	107	103^{a}	107	107	111	115	115	113	114	109	114		1
2	99	108	105	107	106	110	113	114	111^{c}	112	115	112		2
3	99	108	104	107	108	112^{c}	115	100	112^{g}	110	113^{c}	113		3
4	102	112	101^{c}	110	112	111^{i}	119	95	112	110	112	108		4
5	101	109^{a}	103	106	112	111	117	98	114	109	109	105		5
6	103	106^{f}	102	109	111	110^{b}	118	97	117	107	106	110		6
7	104^{b}	102	102	108	108	107^{a}	118	101	116^{c}	107	104	113^{c}		7
8	108^{a}	103	101	106	106	104	115	104	120^{j}	111	108	113^{c}		8
9	107	105	101^{b}	102	104	108	118	109	113	112	104	113		9
10	104	105	104	103	105	103	117	108^{g}	116	109	96	115		10
11	103	106	103	96	102	107	119	110	114	112	99	113		11
12	103^{b}	102	107	90	94	104^{c}	119	112	118	110	104	116		12
13	100	100	100^{a}	78	89	107^{d}	115	115	118	108	107	118		13
14	103	102	104	83	98	110	114	116	117	103	100	117		14
15	108	105	100	87	100	113^{a}	114	117^{c}	111	100	102	113		15
16	108	109^{a}	102	90	107	108	116	116	112	102	106	113		16
17	105	106^{c}	104	94	107	108	115	113	112	105	106	109		17
18	104	105	103^{c}	99	111	109	116	114	108	105	106	112		18
19	106	101^{c}	106	102	112	112	114	110	112	106	106	112		19
20	104	98^{a}	110	102	108	109	114	107	115	107	105	116		20
21	104	96^{f}	109	108	111	111	115	106	116	106	105	114		21
22	106	100	112^{c}	104	111	110	117^{d}	111	115^{b}	109	102	114		22
23	107	104	114^{a}	104	110	111	115^{a}	112	114	107	106	113		23
24	103	103	112^{j}	106	111	111	114	114	112	111	113	115		24
25	77	104		108	111	113	112^{d}	114^{b}	112	111	116	115		25
26	99^{c}	106	111^{j}	110	114^{f}	111	115^{d}	116	112	108	114	115		26
27	100	106	112^{b}	109	112	111	112^{b}	117	113	106	111^{d}	116		27
28	105	104	109^{a}	108	110	112	110	115	110	108^{g}	116	116		28
29	105		110	106	112^{c}	111	109^{b}	116^{b}	112	108	113	117		29
30	105		108	108	114^{a}	114	114	116	114	108	112	111		30
31	108		108^{d}		112		114	112^{b}		106		102		31
Mean	102.8	104.4	105.7	101.9	107.6	109.6	115.1	110.3	113.7	108.0	107.5	113.0		
	360	315	315	360	358	328	351	356	335	365	353	366	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 125

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	101	108	102	107	114	113	105	112	115	115	115	118		1
2	103	106	104	106^{b}	113	113	105	107^{c}	117	115	117	114		2
3	111	106	106^{d}	105	113	114	113	111	112	114	113	116		3
4	117	102	106	108	112	113	113	106	116^{f}	115	114	118		4
5	112	103	107	106^{c}	112	115	110	107	118^{f}	114	116	116		5
6	105	105	106	109^{f}	112^{b}	118	111	106^{d}	121^{d}	118	114	116		6
7	104	104	104^{a}	109^{b}	112	118	112	112	115^{c}	119^{c}	113	114		7
8	105	100	101^{a}	109	113	119	115	108	117	121	115	116		8
9	104^{b}	103	105	112^{f}	112	117	120	111	117	122	114	118		9
10	106	100	104	112	113	114	118	114	118	119^{g}	115	118		10
11	104	105	104	111^{b}	115	115	118	114	119	118^{f}	114	113		11
12	104	104	104	112^{c}	113	114	118	115	122	113	116	110		12
13	104	107	104^{c}	110	111	120	116	118	117	116	121	106		13
14	106	109	109	109	110	118	116	118	116	118	120	106^{h}		14
15	106	107	105^{c}	108^{b}	112^{c}	122	117	117	110	118	123			15
16	106	112	106	110	112^{j}	120	115^{h}	118	111	117	124	114^{f}		16
17	107	110^{b}	109	107	117	117	115	117	113	121	120^{a}	116		17
18	107^{b}		109	110	119	117	118	113	115	121	120^{a}	120		18
19	108		111	106^{j}	117	115	118	112	115	123	119	119		19
20	109		113	115	123	117	116	112	120	122	115	121		20
21	106^{b}		116	114	119	120	112	109^{c}	119	122	116	121		21
22	111		118	111	113	117	107	118^{d}	121	121	119	123		22
23	109		115	110	104	114	109	122^{a}	120	115	118	116		23
24	111^{a}	92^{f}	114		109	109	109	118	119	116	120	110		24
25	112	96	115	109^{j}	107	105	113	119	115	117^{b}	120	108		25
26	109	96	115	112	109	108^{a}	116	121	112	118	117	112		26
27	110	102	114^{a}	112	112^{c}	110^{a}	116	118^{a}	114	118	114	114		27
28	111	99	112	111	106^{a}	112	113	114^{a}	114	119	115	114		28
29	108		108	114^{c}	106	112	114	118^{f}	115	116	116	115^{c}		29
30	106		107	113^{g}	108^{f}	109	115	113^{h}	116	114	116	117		30
31	109		107^{c}		113		114	113		114		116		31
Mean	107.5	103.5	108.4	109.9	112.3	114.8	113.8	113.9	116.3	117.7	117.0	115.2		
	365	250	348	292	343	354	364	332	341	354	354	343	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 126

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	113	115	110	114	120	110	115	110	114	118	113	119		1
2	112	116	116	117	112	115	114	112	117^{a}	122	112^{g}	117		2
3	113	119	115	113	113	114	114	112	115	124	111^{i}	119^{a}		3
4	115	120	115	115	114	113	115	114	114	123	113	118^{b}		4
5	117	114	115	115	113^{a}	115	115	115	120	125	109^{b}	116^{d}		5
6	117	110	113	114	113^{a}	116	117	114	111	123	109	113^{c}		6
7	118	108	112	113	113	115	120	116	110	121	109	116^{h}		7
8	119^{b}	109	111	114	116^{c}	115	121	119	114	115	106			8
9	119	109	110	114		117	116	116	112	117	105			9
10	119	111	110	117	114^{j}	116	115	115	110	113	105^{c}			10
11	113	114	110^{b}	116	113	113	115^{c}	115	115	110	99^{j}			11
12	112	114	114^{a}	120	114	112	114	112	112	108^{b}	107	109^{i}		12
13	113	119	113	114	114	112	118	100	109	110^{b}	110^{b}	108^{j}		13
14	112	119	115	107	112	104	116	99	103	111	113^{g}	115^{f}		14
15	112	123	115	110	111	91	116	102	106	113	109	116^{i}		15
16	113	123^{a}	113	107	112	92	114	98	108	113	113			16
17	113	122	113	113	114	91	113^{b}	100	107	108	113^{b}	111^{f}		17
18	114	119	115	116	117	89	114^{f}	104	109	114	114	115		18
19	118^{a}	112	113	116	117	90	113	106	112	115	119	119		19
20	116	111	117	119	118	92	110	106	112	117	113	114^{c}		20
21	112	109	119	117	120	98^{a}	109	109	113	119	106	116		21
22	113	110^{a}	117	120	115	102^{c}	108	107	114	119	110	116		22
23	112	110^{a}	116^{a}	123	113	104	108^{a}	110	113	122^{d}	110	116		23
24	116	106^{h}	114	120	103	112	111^{g}	115^{d}	112^{b}	123^{b}	110	115		24
25	114	108	116	117	106	110	111	111	111	122	111^{a}	118		25
26	115^{c}	111	119	116^{c}	106	116^{h}	117^{b}	114	116	117	117^{a}	123		26
27	111^{d}	110	120	114^{j}	108	114	113	115^{d}	115	114	117	118		27
28	110	110	120	115^{d}	108	114	112	119^{d}	113	111	123	112		28
29	109		118	116^{g}	110	113	100		115	112	119	108		29
30	111		117	118	115	114	102	112^{h}	118	113	115^{i}	103^{f}		30
31	116		114		114		106^{h}	114		115		112		31
Mean	114.1	113.6	114.7	115.3	112.9	1077	113.0	110.4	112.3	116.4	111.3	114.8		
	358	321	364	336	341	354	350	342	353	362	303	235	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 127

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	116^{f}	108	113	115	102	119	120	125	125^{b}	127	121	131		1
2	116	110	114	109	104	119^{b}	112	123	126	128	124	127		2
3	116	109	113	108	105	120	112	121^{d}	128	130	131	126		3
4	119	109	115	113	105	117	116	123	134^{d}	128	131^{b}	126^{c}		4
5	119	111^{a}	110	111	106	120	115	120	130^{j}	128^{b}	137^{b}	116^{j}		5
6	116	110	102	112	107	120	117	126	133	130	129^{k}	123		6
7	113	114^{b}	100	113	112^{b}	122	117	125	135	129	128	122^{e}		7
8	115	106	104	115	110^{d}	119	119	126	132	130	130^{b}	125		8
9	113^{b}	106	104	116	112	114	121	127	131	127	126^{b}	127		9
10	112	109	109	114	117	115	124	130	131	128	128	126		10
11	109	109	110	118	118	118	125	132	131	126	130	126		11
12	107	111	114^{d}	117	118^{e}	119	128^{d}	132	133	122	130	127		12
13	111	112	117^{a}	115		123	128	131	132	125	129	129		13
14	106	114	121	114^{c}	116^{a}	124	126	134	129	124	129	129		14
15	108	114	119	117	119	127	128	136	128	122	134^{k}	124		15
16	104	118^{c}	117	117	120	125	132	137	127^{d}	123	128	122		16
17	110		114^{a}	118	125^{b}	124^{b}	133	132	129	124	126	120^{c}		17
18	114		116^{c}	120	122	133^{f}	134	125	123	125	127^{a}	123^{j}		18
19	115	118^{g}	116	116^{f}	126	134^{j}	140^{i}	126	120	125	125^{f}	122		19
20	117	116^{d}	114	121	126	127	133	129	125	127^{d}		126^{a}		20
21	118	119	115^{b}	118	124	131	124	123	123^{a}	120^{e}	123^{k}	127^{c}		21
22	119	119	116	117^{b}	130	125	123	120	131^{g}	119		127		22
23	118	121	116	115	126	122	121	121^{i}	133^{a}	119	122^{f}	128		23
24	113^{e}	120	114	117	124	121	120	124	135	120^{b}	123^{k}	122		24
25	115	119	120^{e}	116	121	117	120	127	129^{e}	120		123		25
26	108	118	120	116	117	108	119	128	118^{g}	124	126^{j}	123		26
27	108	114	116	113	115	112	119	125		126	126	126		27
28	106	113	116	108	110	114	122	128	124^{d}	130	126	123^{b}		28
29	110	116	115	105	111	116	125	128	126^{j}	128	126	125^{j}		29
30	109^{a}		114	103	114	119	123	120	129^{b}	126^{c}	126	124		30
31	110		113		114		126	123		128		125		31
Mean	112.6	113.4	113.5	114.2	115.9	120.8	123.3	126.7	128.6	125.4	127.5	124.8		
	358	307	356	352	342	340	35.8	358	291	356	255	325	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 128

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	125^{f}	128^{e}	126	126	129	124	129	132	133^{h}		132^{e}	130^{g}		1
2	126^{a}	132^{b}	126^{a}	128^{b}	131	123^{e}	124	130	130^{d}	131^{g}	131	134		2
3	124^{b}	128	121^{f}	127	128^{b}		126	129	130^{c}		133	130		3
4	124	129	120^{i}	123^{e}	132		127	130	129		133^{b}	134^{b}		4
5	122	129	127^{e}	127	127	122^{e}	129	126	131^{e}	130^{f}	136^{d}			5
6	125	131^{b}	127^{a}	125^{d}	127	129^{a}	130	128	130^{c}	128	132	130^{f}		6
7	122^{e}	128^{b}	122^{f}	125	122	129	126^{i}	127	131^{a}	127	131	130^{e}		7
8	125	132^{d}	126^{b}	124^{d}	119	129	125	129	133^{e}	129	129	131		8
9	130^{b}	135^{e}	123^{h}		124	127	124	123	130	128	130	130^{e}		9
10		131^{g}		124^{e}	123	126	126	125	133	127	133	131		10
11	129^{f}	127		122	123	128	129	131^{c}	130^{e}	125	131	131^{e}		11
12	128	126^{d}		124	121	126	126	129	129^{e}	126	131	130^{d}		12
13	125	128		121	121	124	124	126	128^{a}	124^{f}	130	130^{a}		13
14	120	123	122^{i}	122^{c}	125	124	123	128	129^{b}	131	128	132^{e}		14
15	120	120	118^{c}	110^{f}	121	128	133	125	126^{k}	131	130	128^{f}		15
16	122	123^{b}	119^{c}	121^{a}	124	129	129	128^{d}	126^{e}	135^{a}	129^{k}	136^{f}		16
17	121^{b}	124	119	120	122	124	130	122^{j}	132^{g}	132		129^{e}		17
18		124^{b}	118^{c}	118	124	125	126	128	134^{f}	134^{a}	130^{f}	133^{d}		18
19		127	126^{e}	119^{b}	123	128	127	132	132^{e}	130^{k}	128	134		19
20		129^{e}	122^{d}	123^{d}	127	127	125	130	134^{g}	132	133	130^{f}		20
21	126^{f}	127^{a}	121^{f}	121	125	126	128	130	135^{d}	130	134	132		21
22	124	127	125^{c}	120	126	125	129	130	133^{d}	134	135	132		22
23	124	127	125^{e}	119	126	127	128	130	132^{c}	135	130	133		23
24	129^{c}	130	124	118	124	125	128	131	127^{e}	135	124	134		24
25		127	123	117	125	128	126	128	132^{g}	134	127	131		25
26	123^{f}	127^{b}	125^{b}	121	127	126	130	130	130	134	127	131		26
27	125	127	124	125^{e}	128	132	132	131	129	131	128	134		27
28	128^{e}	125	127^{b}	126^{g}	127	130	128	130	130^{a}	135	131^{k}	134		28
29	127		121	125	126	129	129	132	125^{k}	134^{c}	131	134^{i}		29
30	128		124	128	125	127	130	134		132	136^{e}	134		30
31	130		123		128		132	128^{c}		134^{f}		135		31
Mean	125.1	127.5	123.1	122.4	125.2	126.7	127.7	128.8	130.4	131.0	130.8	131.9		
	263	268	241	295	370	321	363	352	239	298	310	271	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 129

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on 75th West Meridian Time, Huancayo Magnetic Observatory, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	134^{d}	134	133	134^{e}	129^{a}	135	137	136	136	134^{d}	137	135^{a}		1
2	136^{b}	133	134	133	132^{d}	135	135^{b}	137	137	140	136	136^{c}		2
3	130^{c}	131	135	134	133	133	135^{f}	139	137	138	136^{f}			3
4	134^{c}	131	134	135^{a}	132	131^{c}	138	136	140	141	139	137^{e}		4
5	131^{c}	131	137	133	132	131^{k}	136^{b}	135	136	140	138^{b}	134^{e}		5
6	133^{d}	128	133	133	133	133^{j}	136	139	138^{e}	142	139	136		6
7	132	130	131	132	134	137	134^{c}	136	134^{h}	143	139	140		7
8	130^{b}	130	130	132^{h}	133	136^{d}	136^{h}	139	139^{g}	139	136^{e}	133		8
9	131	132	130	130	130^{c}	135^{a}	136	139	138	141	136^{a}	136^{c}		9
10	130	131	133	133	130^{a}	137^{a}	131	140	137	139	138^{d}	133^{d}		10
11	131	131	130	133	135	135^{f}	136^{e}	139	139	139	136	135		11
12	134	132	131	132	132	134^{c}	137^{b}	138	137	137	137^{d}	132^{d}		12
13	132^{a}	131	135	131	130	133^{g}	135	135	139	136	132^{e}	136		13
14	133	135	133	129	128^{b}	134^{d}	133	132	138	137	136^{d}	138		14
15	134	133	134	131	131	132	134	134	135	139	134^{d}	135		15
16	132	134	135	134	130	134^{d}	134^{d}	136	136	136	136^{d}	131		16
17	131	132	134^{a}	133^{c}	131^{c}	134	134	136	136	135	135^{d}	134		17
18	133	134	137	133	131^{b}	132	132	135	133	132	136	133		18
19	134^{c}	131	134	132^{c}	134	132	132	136	135	133	136^{b}	132		19
20		132	130	134	132	133^{d}	135	132^{b}	138	131	136^{d}	132		20
21	130^{e}	131	132	133	131	135	134	133	136	136	132^{d}	133		21
22	131	129	134	129^{c}	132^{c}	135	134	136^{c}	139	136	135^{d}	132		22
23	132	132	134^{b}			136^{a}	137	142^{f}	135	132	134^{d}	132		23
24	132	132^{e}	135^{c}		137^{a}	136	135	139	137^{g}	134	135^{d}	135		24
25	132	132^{f}	133		133^{b}	134^{d}	135	134	138^{f}	138	134^{d}	134		25
26	136	135	134		133	132^{b}	136	138	134	138	137^{c}	138		26
27	132	132	136		133	136^{d}	137	138	135^{a}	138^{e}	131^{i}	138		27
28	134	138		138^{f}	134	135^{d}	137	137	136	138		136		28
29	130		136	133	137	137^{g}	139	135	136	137	138^{f}	135		29
30	130		134^{f}	132	134	137^{d}	134	137	137^{a}	138^{d}	138	132		30
31	130		136^{e}		134		137	136		135		135		31
Mean	132.1	132.0	133.6	132.6	132.3	134.3	135.2	136.5	136.7	137.2	135.9	134.6		
	330	318	340	271	334	277	336	357	320	359	261	331	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 130

Daily Mean Departures from Balance, +60 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 510 mm Hg, on Greenwich Mean Time, Huancayo Magnetic Observatory, 1955

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	133^{h}	136	133	134	137	137	135^{h}	133	137	137	140	134		1
2	128	137	136	135^{d}	135^{a}	133	131^{i}	135	138	138	141	135		2
3	133	137	138	137	137	134	127^{k}	135	138	139	139	136		3
4	132	136	137	133	135	133		137	141	137	138	138		4
5	132	133	135	133	137	131	130^{j}	138	140	134	139	135		5
6	131	133	136	133	130	126	134	131	138	131	141	124		6
7	133	133	137	133	130	128	134	131	139	132	142	127		7
8	128	138	134	132	135	128	133^{a}	136	137	132^{c}	144	130		8
9	128	135	136	133	135	130	136	136	138	134	140	130		9
10	127	137	135	133	133	132	141		139	132	141	133		10
11	131	136	137	132	135	132	141^{a}	140	138	134	143	132		11
12	131	136	137	137	136	136	140^{d}	143	140	132	140	133		12
13	129	135	138	140	136	131	139^{b}	140	141	131	141	136		13
14	126	136	135	135	133	129	137	141	137	134	139	134		14
15	128	134	138	130	130	131	135	140	139	134	141^{a}	136		15
16	129	137	136	134	133	132	133^{b}	142^{b}	142	133	140	138		16
17	128	133	135	132	136	135	134	145^{b}	142	131	138	140		17
18	130	131	130	138	134	135^{a}	135^{a}	142	141	137	138	139^{b}		18
19	132	132	131	137	136	135^{e}	140^{a}	145^{b}	141	138	136	139		19
20	127	132	136	136	134	139^{a}	140	141	144	137	128	141		20
21	127	130	131	139	138	138^{d}	138	141	141	136	131	138		21
22	131	135	136	135^{a}	138	138^{f}	140^{a}	139	138^{a}	138	137	137		22
23	134	131	132	136	138	139^{d}	142	142	136	138	137	136		23
24	132	132	130	136	137^{a}	137^{h}	139	141	136^{b}	133	138	135		24
25	135	136	132	135	137^{b}	137^{e}	136	137	138	141	133^{b}	137		25
26	135	135	131		136	133^{d}	132	136	137^{a}	136	138	136		26
27	134	135	130		132	132^{i}	135	137	133^{a}	139	135	140		27
28	133	134	130		130	132^{f}	132	139	133	140^{b}	140	139		28
29	132		130^{d}		131	138^{h}	131^{a}	135	138^{a}	142	139	139		29
30	133		134^{d}	135^{f}	135	135^{k}	133	135	135	138	137	140		30
31	134		134		138^{i}		133	135		139^{b}		141^{e}		31
Mean	130.8	134.5	134.2	134.7	134.7	133.5	135.5	138.3	138.5	135.7	138.5	135.7		
	370	336	364	299	359	284	305	354	354	365	357	368	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 131

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huançayo Magnetic Observatory, 1946

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1053	1069	1082	1073	1088	1088	1073	1076	1067	1067	1073	1041	1071	29
Feb.	769	780	795	794	798	803	810	797	804	795	783	763	791	27
Mar.	862	858	877	882	890	884	896	878	888	860	877	840	874	26
Apr.	883	898	918	905	903	902	926	913	911	887	881	873	900	15
May	815	819	843	845	845	866	864	870	869	848	823	815	844	30
June	866	871	862	901	881	883	892	894	901	892	872	853	881	30
July	851	859	856	864	871	888	857	872	881	847	826	829	858	31
Aug.	908	920	926	956	958	950	941	959	967	961	914	907	939	25
Sept.	929	929	956	947	958	943	971	958	941	935	933	899	942	28
Oct.	987	984	992	1013	1015	987	996	1002	1015	999	997	985	998	26
Nov.	998	1004	1024	998	1002	1000	1006	1002	992	991	976	991	999	16
Dec.	1033	1055	1063	1053	1048	1058	1038	1050	1060	1050	1038	1042	1049	26
I	963	977	991	980	984	987	982	981	981	976	968	959	978	98
II	915	917	936	937	942	929	947	938	939	920	922	899	928	91
III	860	867	872	892	889	897	888	899	904	887	859	851	880	116
Year	913	920	933	936	938	938	939	939	941	928	916	903	929	305

TABLE 132

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1947

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1043	1039	1058	1068	1062	1056	1052	1057	1056	1030	1038	1012	1048	25
Feb.	1043	1055	1057	1067	1053	1069	1041	1038	1046	1049	1047	1028	1049	27
Mar.	933	951	952	954	971	967	968	974	979	952	940	914	955	31
Apr.	872	869	889	914	893	885	905	917	921	903	881	884	894	30
May	857	853	870	884	860	856	884	877	906	890	869	859	872	31
June	664	673	705	711	718	694	689	709	710	690	675	699	694	30
July	768	755	770	793	769	761	786	815	793	795	769	762	778	31
Aug.	729	740	764	761	741	753	747	784	788	764	744	713	752	28
Sept.	709	731	742	729	753	745	745	762	762	739	706	704	736	26
Oct.	777	786	789	805	781	794	793	809	795	787	782	774	789	27
Nov.	817	817	828	836	825	808	833	842	871	841	823	795	828	29
Dec.	854	872	881	871	884	894	893	895	903	879	854	860	878	31
I	939	946	956	960	956	957	955	958	969	950	940	924	951	112
II	823	834	843	850	850	848	853	866	864	845	827	819	844	114
III	754	755	777	787	772	766	776	796	799	785	764	758	774	120
Year	839	845	859	866	859	857	861	873	877	860	844	834	856	346

TABLE 133

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1948

	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Mean	No. of complete days
Jan.	938	942	951	958	951	952	960	954	977	959	937	933	951	27
Feb.	975	1001	993	1007	984	1014	983	996	997	1003	991	977	993	26
Mar.	980	971	970	983	961	971	992	971	973	993	960	961	974	21
Apr.	1018	1014	1028	1042	1039	1018	1015	1018	1018	1026	1004	1000	1020	28
May	905	939	949	930	937	931	929	935	936	936	925	931	932	27
June	1029	1055	1057	1059	1071	1066	1066	1061	1060	1046	1046	1033	1054	30
July	1033	1078	1068	1055	1069	1049	1057	1065	1040	1042	1028	1043	1052	30
Aug.	1030	1039	1059	1049	1060	1050	1062	1066	1046	1042	1016	1006	1043	29
Sept.	970	987	990	1009	1010	988	1009	997	1042	1009	996	977	999	27
Oct.	975	1004	1020	1012	1000	1006	992	1015	1004	983	986	967	997	25
Nov.	1018	1031	1032	1030	1028	1010	1014	1010	1017	1028	1023	997	1020	24
Dec.	1032	1046	1049	1040	1045	1064	1048	1062	1055	1051	1035	1018	1045	28
I	991	1005	1006	1009	1002	1010	1001	1006	1012	1010	996	981	1002	105
II	986	994	1002	1012	1002	996	1002	1000	1009	1003	986	976	998	101
III	999	1028	1032	1023	1034	1024	1028	1032	1020	1016	1004	1003	1020	116
Year	992	1009	1013	1015	1013	1010	1010	1013	1014	1010	995	987	1007	322

TABLE 134

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1949

	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Mean	No. of complete days
Jan.	1018	1009	1037	1023	1025	1050	1040	1031	1040	1036	1018	1006	1028	27
Feb.	1048	1040	1056	1064	1062	1052	1050	1045	1031	1047	1040	1018	1046	21
Mar.	1036	1056	1051	1064	1051	1056	1061	1053	1028	1040	1023	1044	1047	18
Apr.	1000	1021	1026	1028	1020	1043	1031	1023	1035	1031	1001	982	1020	30
May	1060	1061	1075	1086	1082	1086	1072	1068	1074	1063	1055	1054	1070	28
June	1060	1080	1095	1110	1120	1112	1098	1119	1101	1101	1092	1075	1097	23
July	1145	1149	1177	1162	1166	1167	1159	1156	1171	1152	1150	1114	1156	25
Aug.	1074	1095	1112	1118	1110	1102	1110	1101	1097	1096	1080	1069	1097	26
Sept.	1131	1139	1146	1149	1146	1142	1126	1138	1180	1126	1138	1118	1136	25
Oct.	1073	1090	1110	1103	1091	1074	1059	1060	1074	1066	1076	1079	1080	30
Nov.	1048	1079	1091	1092	1076	1085	1077	1056	1072	1068	1055	1059	1072	28
Dec.	1124	1128	1134	1139	1153	1133	1135	1140	1133	1121	1113	1107	1130	29
I	1060	1064	1080	1080	1079	1080	1076	1068	1069	1068	1056	1048	1069	105
II	1060	1076	1083	1086	1077	1079	1069	1068	1067	1066	1060	1056	1071	103
III	1085	1096	1115	1119	1120	1117	1110	1111	1111	1103	1094	1078	1105	102
Year	1068	1079	1093	1095	1092	1092	1085	1082	1082	1079	1070	1061	1082	310

TABLE 135

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1950

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1059	1069	1073	1091	1082	1075	1075	1083	1085	1083	1071	1060	1076	27
Feb.	995	1028	1040	1056	1056	1046	1044	1058	1058	1038	1026	998	1037	20
Mar.	1069	1090	1083	1112	1108	1082	1083	1113	1104	1094	1086	1065	1091	24
Apr.	1079	1084	1115	1118	1108	1101	1121	1112	1107	1084	1085	1090	1100	17
May	1102	1126	1147	1162	1136	1138	1135	1120	1127	1118	1106	1112	1127	25
June	1154	1165	1185	1179	1172	1169	1164	1137	1136	1121	1110	1120	1151	28
July	1112	1119	1164	1164	1164	1156	1150	1138	1136	1112	1112	1109	1136	30
Aug.	1106	1133	1149	1161	1154	1146	1136	1124	1154	1143	1140	1123	1139	22
Sept.	1145	1148	1175	1178	1179	1154	1177	1171	1152	1159	1145	1137	1160	26
Oct.	1160	1184	1177	1179	1186	1200	1185	1193	1167	1181	1150	1142	1175	27
Nov.	1159	1175	1167	1179	1179	1188	1168	1169	1180	1154	1147	1143	1167	28
Dec.	1137	1156	1156	1165	1160	1167	1152	1146	1173	1156	1152	1144	1155	27
I	1088	1107	1109	1123	1119	1118	1110	1114	1124	1108	1099	1086	1109	102
II	1113	1126	1138	1147	1145	1134	1142	1147	1132	1130	1116	1108	1132	94
III	1118	1136	1161	1166	1156	1162	1146	1130	1138	1124	1117	1116	1138	105
Year	1106	1123	1136	1145	1140	1135	1133	1130	1131	1121	1111	1103	1126	301

TABLE 136

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1951

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1101	1134	1160	1140	1154	1159	1166	1146	1146	1133	1111	1115	1139	27
Feb.	1119	1135	1143	1158	1136	1148	1142	1129	1148	1137	1127	1140	1139	24
Mar.	1131	1142	1147	1167	1183	1178	1170	1156	1138	1127	1123	1119	1148	28
Apr.	1131	1153	1160	1173	1182	1163	1155	1153	1166	1137	1140	1127	1153	26
May	1110	1129	1144	1146	1145	1135	1138	1131	1125	1126	1107	1098	1128	26
June	1060	1075	1093	1086	1094	1079	1084	1083	1084	1072	1060	1068	1078	27
July	1146	1129	1151	1149	1142	1129	1138	1128	1126	1122	1111	1114	1132	24
Aug.	1084	1101	1119	1117	1118	1121	1099	1085	1093	1077	1080	1065	1097	26
Sept.	1097	1113	1127	1144	1132	1141	1124	1135	1120	1103	1114	1107	1121	28
Oct.	1161	1169	1176	1184	1180	1176	1181	1185	1162	1134	1140	1146	1166	27
Nov.	1113	1109	1142	1140	1132	1142	1134	1123	1122	1090	1084	1095	1119	19
Dec.	1129	1161	1173	1194	1186	1175	1147	1160	1177	1148	1123	1141	1160	14
I	1116	1135	1154	1158	1152	1156	1147	1140	1148	1127	1111	1123	1139	84
II	1130	1144	1152	1167	1169	1164	1158	1157	1146	1125	1129	1125	1147	109
III	1100	1108	1127	1124	1125	1116	1115	1107	1107	1099	1090	1086	1109	103
Year	1115	1129	1144	1150	1149	1145	1140	1135	1134	1117	1110	1111	1132	296

TABLE 137

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1952

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1117	1130	1121	1117	1132	1140	1137	1134	1131	1121	1116	1107	1125	27
Feb.	1101	1119	1125	1139	1139	1145	1142	1139	1153	1123	1109	1110	1129	22
Mar.	1130	1145	1142	1146	1139	1144	1130	1124	1112	1114	1102	1117	1129	25
Apr.	1132	1145	1152	1155	1160	1151	1138	1147	1135	1136	1118	1119	1141	27
May	1158	1169	1197	1171	1170	1155	1161	1164	1153	1139	1133	1126	1158	25
June	1191	1203	1197	1208	1221	1210	1193	1197	1185	1192	1182	1203	1198	26
July	1211	1219	1234	1246	1243	1226	1225	1223	1222	1220	1213	1222	1225	29
Aug.	1270	1283	1299	1293	1288	1265	1246	1255	1265	1264	1254	1266	1271	29
Sept.	1295	1281	1302	1324	1325	1297	1286	1296	1299	1288	1274	1274	1295	17
Oct.	1248	1265	1272	1274	1270	1260	1253	1264	1243	1242	1248	1232	1256	26
Nov.	1262	1283	1276	1313	1301	1273	1258	1265	1275	1264	1225	1266	1272	15
Dec.	1229	1258	1285	1292	1267	1274	1255	1245	1243	1254	1231	1230	1255	22
I	1177	1198	1202	1215	1210	1208	1198	1196	1200	1190	1170	1178	1195	86
II	1201	1209	1217	1225	1224	1213	1202	1208	1197	1195	1186	1186	1205	95
III	1208	1218	1232	1230	1230	1214	1206	1210	1206	1204	1196	1204	1213	109
Year	1195	1208	1217	1223	1221	1212	1202	1205	1201	1196	1184	1189	1204	290

TABLE 138

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1953

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1227	1274	1271	1275	1271	1251	1244	1257	1229	1225	1210	1223	1248	15
Feb.	1283	1276	1286	1284	1277	1265	1274	1252	1266	1251	1243	1239	1266	15
Mar.	1228	1230	1269	1284	1231	1230	1208	1209	1229	1216	1209	1205	1229	8
Apr.	1231	1238	1226	1264	1245	1226	1209	1226	1206	1219	1194	1183	1222	17
May	1254	1256	1278	1266	1264	1247	1238	1243	1233	1251	1252	1230	1251	30
June	1269	1270	1273	1298	1290	1272	1274	1256	1260	1254	1258	1264	1270	25
July	1277	1263	1288	1297	1290	1283	1275	1272	1270	1266	1272	1271	1277	30
Aug.	1306	1313	1301	1302	1293	1267	1271	1290	1273	1290	1289	1284	1290	27
Sept.	1284	1308	1308	1350	1310	1308	1310	1294	1294	1320	1274	1272	1303	5
Oct.	1318	1314	1327	1320	1322	1301	1312	1300	1315	1306	1290	1295	1310	20
Nov.	1294	1325	1348	1329	1312	1292	1299	1291	1290	1285	1275	1292	1303	22
Dec.	1321	1339	1335	1335	1341	1346	1319	1329	1315	1303	1322	1301	1326	15
I	1281	1304	1310	1306	1300	1288	1284	1282	1275	1266	1262	1264	1286	67
II	1265	1272	1282	1304	1277	1266	1260	1257	1261	1265	1242	1239	1266	50
III	1276	1276	1285	1291	1284	1267	1264	1265	1259	1265	1268	1262	1272	112
Year	1274	1284	1292	1300	1287	1274	1269	1268	1265	1265	1257	1255	1275	229

TABLE 139

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1954

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1328	1337	1338	1333	1330	1298	1322	1292	1326	1308	1322	1314	1321	20
Feb.	1323	1338	1332	1330	1331	1364	1323	1309	1316	1324	1318	1311	1321	26
Mar.	1336	1352	1350	1362	1335	1328	1328	1340	1337	1308	1310	1322	1334	25
Apr.	1322	1332	1363	1349	1343	1318	1317	1330	1292	1294	1313	1314	1324	18
May	1328	1346	1334	1324	1348	1316	1317	1326	1328	1332	1327	1322	1328	20
June	1351	1352	1348	1376	1345	1344	1338	1328	1325	1333	1339	1338	1343	11
July	1361	1366	1356	1340	1344	1353	1323	1350	1347	1364	1359	1353	1351	23
Aug.	1375	1365	1372	1370	1350	1350	1340	1357	1370	1375	1378	1370	1365	28
Sept.	1373	1370	1374	1380	1366	1343	1338	1346	1361	1392	1389	1365	1366	23
Oct.	1368	1385	1382	1387	1384	1358	1363	1362	1392	1378	1355	1357	1373	28
Nov.	1381	1378	1391	1386	1376	1384	1346	1392	1360	1386	1358	1356	1374	8
Dec.	1352	1347	1383	1360	1367	1350	1339	1336	1348	1332	1331	1322	1347	23
I	1346	1350	1361	1352	1351	1334	1332	1332	1336	1338	1332	1326	1341	77
II	1348	1360	1367	1370	1357	1337	1336	1344	1346	1343	1342	1340	1349	94
III	1354	1357	1352	1352	1347	1339	1330	1340	1342	1351	1351	1346	1347	82
Year	1349	1356	1360	1358	1352	1337	1333	1339	1341	1344	1342	1337	1346	253

TABLE 140

Diurnal Variation in Departures from Balance, +600 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 510 mm Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Huancayo Magnetic Observatory, 1955

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	1290	1292	1282	1324	1322	1332	1317	1316	1309	1313	1306	1293	1308	30
Feb.	1323	1325	1330	1349	1346	1362	1350	1351	1338	1349	1335	1350	1344	28
Mar.	1318	1318	1328	1349	1359	1352	1361	1362	1353	1344	1342	1339	1344	29
Apr.	1329	1334	1332	1357	1354	1357	1344	1363	1353	1358	1346	1343	1348	23
May	1331	1329	1321	1336	1355	1358	1365	1344	1337	1358	1352	1347	1344	27
June	1284	1306	1300	1304	1323	1318	1328	1346	1328	1318	1318	1314	1316	17
July	1337	1358	1357	1388	1386	1349	1370	1368	1355	1352	1340	1342	1358	17
Aug.	1370	1364	1353	1375	1387	1377	1403	1390	1376	1389	1375	1371	1378	27
Sept.	1368	1370	1379	1410	1413	1390	1402	1388	1398	1387	1395	1368	1389	25
Oct.	1339	1335	1361	1365	1374	1375	1365	1355	1346	1350	1344	1352	1355	28
Nov.	1363	1354	1374	1394	1406	1402	1403	1394	1393	1388	1366	1385	1385	28
Dec.	1329	1324	1351	1362	1368	1371	1364	1360	1362	1361	1354	1339	1354	29
I	1326	1324	1339	1357	1360	1367	1358	1355	1350	1353	1340	1342	1348	115
II	1338	1339	1350	1370	1375	1368	1378	1367	1362	1360	1357	1350	1359	105
III	1330	1339	1333	1351	1363	1350	1366	1362	1349	1354	1346	1344	1349	88
Year	1331	1334	1341	1359	1366	1362	1367	1361	1354	1356	1348	1345	1352	308

Table 141. Total number of bursts in each indicated size interval, S, for each year at Huancayo. S is in units of 0.1 per cent of total ions produced per hour by cosmic rays.

S Year	5.0-7.0	7.0-9.0	9.0-11.0	11.0-13.0	13.0-15.0	15.0-17.0	17.0-19.0	19.0-39.0	39.0-∞	No. of Complete Hours
1936	333	163	71	39	16	24	15	49		4320
1937	485	242	118	57	42	42	13	74	26	8016
1938	601	257	161	101	65	36	33	98	20	8400
1939	780	371	191	103	67	46	50	90	25	8640
1940	939	389	174	127	65	50	33	90	34	8712
S Year	5.5-6.5	6.5-7.5	7.5-8.5	8.5-9.5	9.5-19.5	19.5-29.5	29.5-39.5	39.5-49.5	49.5-∞	
1941	267	258	140	110	374	62	15	13	20	7065
1942	589	452	270	137	507	81	32	25	10	8638
1943	614	415	282	140	514	67	35	12	10	7883
1944	449	373	221	119	461	60	21	14	17	8080
1945	473	373	203	149	466	67	34	20	20	8363
1946	238	265	240	56	455	73	24	16	17	8342
1947	254	253	209	46	407	79	25	8	18	8304
1948	504	392	301	94	448	79	30	17	16	7750
1949	394	275	187	73	455	69	20	17	11	7440
1950	345	237	205	92	405	68	39	10	13	8090
1951	366	279	197	78	400	66	22	8	15	8060
1952	394	253	203	86	380	76	23	6	13	7986
1953	246	244	175	74	337	63	18	9	8	7160
1954	259	236	146	78	281	58	17	8	16	7637
1955	286	255	135	87	354	65	33	18	11	8204

TABLE 142

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20	58	67	67	65	58	62	58	65	60	57	59	63	739	62			20
21	65	60	70	68	67	66	69	72	73	68	69	61	808	67			21
22	68	70	71	64	70	70	75	69	83	65	77	65	847	71			22
23	68	71	74	70	75	74	72	74	67	62	63	62	832	69			23
24	65	68	66	67	65	71	71	69	64	57	58	55	776	65			24
25	62	74	66	64	69	69	63	70	67	70	69	70	813	68			25
26	71	68	78	70	72	70	84	70	82	79	89	65	898	75			26
27	72	63	70	72	71	75	73	72	70	70	77	72	857	71			27
28	80	80	91	87	76	79	76	72	70	76	76	75	938	78			28
29	75	87	76	74	68	69	76	80	77	76	74	80	912	76			29
30	78	84	76	77	80	83	77	71	75	65	74	74	914	76			30
31	69	77	73	73	70	76	64	74	78	69	66	65	854	71			31
Sum	831	869	878	851	841	864	858	858	866	814	851	807	10188	850	70.8	(12 days)	
Mean	69.2	72.4	73.2	70.9	70.1	72.0	71.5	71.5	72.2	67.8	70.9	67.2	70.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 143

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	72	70	77	75	74	75	70	69	75	72	70	66	865	72			1
2	75	71	69	78	76	68	71	72	75	68	66	67	856	71			2
3	71	71	65	73	75	69	74	73	77	68	66	64	846	70			3
4	64	60	66	67	71	66	72	64	69	58	64	66	787	66			4
5	72	65	63	61	59	60	68	65	55	62	59	46	735	61			5
6	57	59	60	63	64	70	66	65	64	71	68	65	772	64			6
7	68	76	66	67	75	76	72	72	71	63	58	68	832	69			7
8	62	60	60	59	59	66	68	64	65	68	57	67	755	63			8
9	64	57	63	61	61	62	66	64	71	63	73	77	782	65			9
10	68	71	74	81	76	80	70	81	73	70	78	73	895	75			10
11	88	75	85	78	79	86	83	80	80	82	85	84	985	82			11
12	77	86	75	84	74	76	74	74	81	76	67	65	909	76			12
13	72	69	68	64	66	73	74	69	66	65	68	67	821	68			13
14	64	69	71	69	63	62	64	67	66	63	59	72	789	66			14
15	67	60	63	59	65	65	67	68	70	70	71	68	793	66			15
16	71	66	72	70	77	71	70	63	69	57	68	68	822	68			16
17	53	60	57	59	56	61	58	63	59	43	58	55	682	57			17
18	46	45	50	47	60	49	50	59	61	54	41	50	612	51			18
19	55	47	52	55	57	65	60	72	58	58	60	60	699	58			19
20	64	59	49	55	61	67	67	61	65	59	59	60	726	60			20
21	54	58	61	59	60	53	66	70	58	55	59	55	708	59			21
22	63	60	63	55	64	58	58	69	60	63	58	69	740	62			22
23	61	64	64	75	66	64	61	57	69	60	59	69	769	64			23
24	61	72	66	60	66	66	77	69	64	56	61	50	768	64			24
25	58	61	52	65	55	57	46	52	51	52	47	45	641	53			25
26	49	43	44	49	52	65	48	40	22	26	30	26	494	41			26
27	24	34	28	21	26	29	30	35	37	32	30	32	358	30			27
28	41	33	44	34	32	35	34	41	42	36	28	34	434	36			28
29	33	30	39	30	40	28	23	21	28	25	36	30	363	30			29
30	33	29	41	34	30	39	39	37	43	48	39	45	457	38			30
31																	31
Sum	1807	1780	1807	1807	1839	1861	1846	1856	1844	1743	1742	1763	21695	1805		(30 days)	
Mean	60.2	59.3	60.2	60.2	61.3	62.0	61.5	61.9	61.5	58.1	58.1	58.8	723.1	60.2			
													60.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 144

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	33	42	46	55	45	46	43	59	51	43	55	47	565	47			1
2	43	46	47	49	49	43	56	53	51	46	42	49	574	48			2
3	52	54	50	51	46	60	58	56	58	58	60	55	658	55			3
4	54	56	55	53	54	63	55	55	50	50	49	52	646	54			4
5	55	56	53	56	59	64	58	64	55	53	54	59	686	57			5
6	58	59	61	53	68	58	58	53	60	57	57	69	711	59			6
7	58	55	67	55	62	55	60	52	54	60	54	61	693	58			7
8	53	54	53	62	65	60	65	57	58	55	55	52	689	57			8
9	57	52	47	60	55	62	58	49	50	59	50	60	659	55			9
10	58	56	63	52	60	62	60	59	53	60	65	57	705	59			10
11	66	64	65	68	70	55	58	48	51	57	58	59	719	60			11
12	61	63	56	56	46	46	53	54	55	52	52	52	646	54			12
13	57	45	52	49	52	55	47	52	54	51	48	57	619	52			13
14	50	59	53	46	44	61	53	61	68	56	60	56	667	56			14
15	53	51	50	57	58	54	64	68	56	61	59	49	680	57		/	15
16	55	57	50	56	57	63	59	61	53	52	50	50	663	55			16
17	59	61	56	51	67	57	61	61	52	55	45	54	679	57			17
18	60	60	59	55	56	55	57	52	60	52	50	49	665	55			18
19	58	66	58	55	64	53	57	54	63	55	57	59	699	58			19
20	68	64	44	40	64	62	63	58	59	62	49	59	692	58			20
21	52	53	51	39	59	50	55	53	54	45	40	48	599	50			21
22	31	40	43	41	51	51	51	53	47	46	44	44	542	45			22
23	44	59	46	56	55	54	49	54	54	54	52	55	632	53			23
24	59	53	52	60	53	50	54	58	50	52	59	52	652	54			24
25	57	37	50	51	55	58	61	54	52	50	48	55	648	54			25
26	44	44	47	39	50	43	55	53	48	45	46	50	564	47			26
27	53	41	50	52	54	54	53	52	51	48	47	49	604	50			27
28	46	45	37	35	39	49	39	42	46	50	43	49	520	43			28
29	38	48	43	39	35	44	52	57	54	45	39	44	538	45			29
30	44	31	38	37	46	43	45	52	48	42	35	40	501	42			30
31	39	34	40	46	37	44	45	44	38	40	44	34	485	40			31
Sum	1615	1625	1582	1574	1675	1674	1702	1698	1653	1611	1566	1625	19600	1634	52.7	(31 days)	
Mean	52.1	52.4	51.0	50.8	54.0	54.0	54.9	54.8	53.3	52.0	50.5	52.4	632.2				
													52.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 145

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	39	37	37	45	33	43	38	44	43	39	36	35	469	39			1
2	51	38	46	37	34	42	46	47	37	43	34	42	497	41			2
3	39	36	41	39	47	36	40	42	40	45	49	34	488	41			3
4	40	50	44	40	52	42	37	38	29	39	40	35	486	40			4
5	30	36	33	32	30	30	21	27	25	29	23	28	344	29			5
6	33	32	27	26	26	30	30	31	29	28	36	33	361	30			6
7	33	33	32	28	28	40	40	31	36	34	43	45	423	35			7
8	39	48	44	41	37	43	47	39	41	37	39	50	505	42			8
9	45	41	41	34	31	46	41	38	42	40	32	41	472	39			9
10	41	34	35	23	35	31	39	28	31	35	32	45	409	34			10
11	34	38	48	44	35	46	44	51	42	41	40	43	506	42			11
12	43	50	51	38	34	34	50	39	35	34	43	42	493	41			12
13	34	36	31	34	35	39	37	32	35	33	35	30	411	34			13
14	35	25	27	37	35	37	27	29	26	39	40	35	392	33			14
15	34.	37	42	37	28	33	33	47	29	36	25	28	409	34			15
16	34	28	38	35	34	35	28	31	32	31	34	34	394	33			16
17	36	33	32	32	38	32	35	23	35	32	31	29	388	32			17
18	37	31	30	26	33	37	33	35	37	35	40	43	417	35			18
19	34	39	31	31	35	46	43	37	35	45	34	39	449	37			19
20	32	41	37	39	39	44	43	41	39	35	33	30	453	38			20
21	38	30	39	35	36	43	38	40	27	28	30	42	426	36			21
22	36	33	42	31	41	40	36	38	41	32	35	31	436	36			22
23	26	39	36	28	35	33	27	27	27	35	22	31	366	30			23
24	28	41	23	35	28	39	27	24	35	30	24	30	364	30			24
25	30	38	38	28	30	28	40	38	35	36	32	40	413	34			25
26	36	30	35	30	39	35	37	32	35	33	41	42	425	35			26
27	36	27	22	34	32	31	30	27	24	27	22	32	344	29			27
28	30	34	31	29	24	27	29	24	36	28	34	40	366	30			28
29	40	23	31	38	40	38	33	29	43	38	39	34	426	36			29
30	41	36	28	39	35	36	50	40	39	40	46	47	477	40			30
31																	31
Sum	1084	1074	1072	1025	1039	1116	1099	1049	1040	1057	1044	1110	12809	1065	35.5	(30 days)	
Mean	36.1	35.8	35.7	34.2	34.6	37.2	36.6	35.0	34.7	35.2	34.8	37.0	426.9				
													35.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 146

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	39	44	39	42	44	37	41	39	47	42	42	43	499	42		1
2	37	42	51	50	53	49	50	44	43	48	57	38	562	47		2
3	43	46	42	44	42	47	43	46	45	40	38	40	516	43		3
4	50	44	48	46	54	49	53	50	43	44	45	48	574	48		4
5	35	54	43	51	49	52	51	35	42	37	39	44	532	44		5
6	43	36	37	46	46	37	39	35	40	38	34	30	461	38		6
7	38	46	35	44	26	43	48	35	39	45	36	38	473	39		7
8	30	38	37	43	47	32	37	34	36	38	42	38	452	38		8
9	40	38	36	34	40	35	44	36	37	26	34	30	430	36		9
10	38	33	35	33	33	31	37	38	29	33	29	29	398	33		10
11	27	33	41	31	41	40	41	44	42	38	49	36	463	39		11
12	38	40	36	29	36	33	43	42	42	30	36	34	439	37		12
13	34	38	32	28	42	36	40	37	32	30	35	30	414	34		13
14	27	33	48	28	35	41	36	43	35	39	39	34	438	36		14
15	33	30	28	30	35	33	40	33	31	37	37	31	398	33		15
16	31	32	31	26	42	47	39	26	33	36	37	35	415	35		16
17	32	35	34	32	31	43	36	43	29	40	33	42	430	36		17
18	44	36	41	38	46	49	44	45	49	38	38	43	511	43		18
19	35	44	50	40	46	43	42	42	35	34	32	22	465	39		19
20	34	35	33	29	33	32	38	37	36	22	24	38	391	33		20
21	37	30	33	37	33	37	37	36	22	34	28	28	392	33		21
22	37	35	38	34	36	31	39	39	28	34	37	38	426	36		22
23	35	45	34	40	40	44	36	35	36	41	37	35	458	38		23
24	36	35	38	38	38	31	34	33	38	35	32	34	422	35		24
25	30	36	33	34	37	34	40	38	35	39	37	40	433	36		25
26	34	40	44	40	46	32	40	40	30	38	41	34	459	38		26
27	44	39	40	37	41	49	43	40	40	40	43	41	497	41		27
28	44	44	41	47	34	41	47	42	36	33	39	49	497	41		28
29	39	42	46	51	46	44	46	39	46	44	48	44	535	45		29
30	38	40	41	48	40	52	41	41	45	42	44	39	511	43		30
31	39	35	40	46	41	46	38	43	47	38	36	44	493	41		31
Sum	1141	1198	1205	1196	1253	1250	1283	1210	1168	1153	1178	1149	14384	1200	38.7 (31 days)	
Mean	36.8	38.6	38.9	38.6	40.4	40.3	41.4	39.0	37.7	37.2	38.0	37.1	464.0			
													38.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 147

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	40	37	36	43	40	40	37	36	41	27	33	25	435	36		1
2	32	38	39	42	38	42	45	44	32	39	38	36	465	39		2
3	44	38	38	37	36	36	35	24	27	24	22	30	391	33		3
4	30	32	34	46	27	28	36	30	30	19	29	25	366	30		4
5	20	23	29	29	30	37	38	24	22	26	19	29	326	27		5
6	29	32	30	31	36	34	38	31	31	29	28	33	382	32		6
7	28	32	29	30	36	42	34	28	32	28	31	30	380	32		7
8	23	35	34	24	29	34	32	30	31	30	34	34	370	31		8
9	26	32	40	39	27	27	34	32	32	29	32	29	379	32		9
10	28	38	31	30	35	24	30	38	34	27	34	29	378	32		10
11	31	33	36	45	42	36	36	32	35	32	36	39	433	36		11
12	32	34	30	33	36	38	36	44	34	28	35	34	414	34		12
13	34	33	37	41	42	42	40	39	38	33	31	37	447	37		13
14	31	28	41	40	41	53	38	40	44	33	42	42	473	39		14
15	36	36	45	37	31	37	48	39	43	40	41	42	475	40		15
16	42	39	34	40	37	32	32	46	42	38	35	39	456	38		16
17	36	38	41	33	33	36	43	35	39	33	39	31	437	36		17
18	46	41	44	25	32	34	47	37	42	42	33	35	458	38		18
19	29	31	40	37	31	39	32	31	35	44	40	31	420	35		19
20	39	34	40	43	41	43	43	38	52	33	45	37	488	41		20
21	37	39	42	40	43	39	46	42	45	46	39	38	496	41		21
22	29	43	46	39	36	44	44	32	35	35	32	40	455	38		22
23	44	36	32	41	39	40	40	47	36	40	38	45	478	40		23
24	42	33	38	44	45	40	51	34	34	43	35	38	477	40		24
25	35	36	37	36	35	38	44	32	37	38	36	38	442	37		25
26	33	34	39	36	39	35	42	42	37	41	36	28	442	37		26
27	31	31	34	42	45	41	39	32	43	44	39	37	458	38		27
28	31	38	30	36	48	46	37	38	35	48	39	34	460	38		28
29	40	40	30	35	44	42	40	39	39	39	33	35	456	38		29
30	35	32	32	50	32	48	35	45	43	43	43	34	472	39		30
31	42	37	35	42	37	34	35	44	38^5	36	35	36	448	37		31
Sum	1055	1083	1123	1166	1143	1181	1207	1125	1135	1087	1082	1070	13457	1121	36.2 (31 days)	
Mean	34.0	34.9	36.2	37.6	36.9	38.1	38.9	36.3	36.6	35.1	34.9	34.5	434.0			
												36.2	36.2			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 148

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	32	39	27	37	23	36	38	40	36	48	43	43	442	37			1
2	32	30	43	33	44	39	44	43	44	38	41	30	461	38			2
3	37	40	43	41	37	41	39	40	43	40	43	42	486	40			3
4	34	41	37	37	45	36	47	46	45	40	35	37	480	40			4
5	39	35	33	35	45	34	36	45	40	34	39	54	469	39			5
6	46	49	39	40	41	41	34	44	43	35	36	31	479	40			6
7	33	35	39	40	39	47	39	38	41	46	40	42	479	40			7
8	36	41	44	41	42	43	49	48	53	47	50	50	544	45			8
9	47	52	53	53	43	54	48	50	49	48	47	49	593	49			9
10	41	45	50	41	44	46	48	35	46	33	42	47	518	43			10
11	38	54	44	53	39	50	40	41	41	35	42	34	511	43			11
12	37	49	49	51	50	44	39	53	45	44	48	46	555	46			12
13	53	50	39	48	51	53	50	49	52	52	49	50	596	50			13
14	40	50	40	47	43	47	45	51	45	41	42	33	524	44			14
15	40	43	45	33	38	40	55	51	41	42	39	37	504	42			15
16	43	45	40	41	48	46	46	49	48	53	40	46	545	45			16
17	43	55	47	46	45	51	51	62	56	52	54	45	607	51			17
18	41	43	51	48	50	54	54	46	52	56	49	53	597	50			18
19	49	43	38	46	50	52	45	44	53	52	48	50	570	48			19
20	50	60	47	58	55	42	46	49	54	44	44	45	594	50			20
21	41	40	52	53	45	53	51	50	57	54	47	55	598	50			21
22	45	43	58	55	49	46	48	45	56	51	46	44	586	49			22
23	48	48	39	39	44	52	44	41	46	41	41	42	525	44			23
24	50	47	45	50	44	44	37	39	51	40	46	44	537	45			24
25	56	47	47	45	48	43	44	37	42	40	50	45	544	45			25
26	48	40	51	46	47	49	45	45	50	42	51	56	570	48			26
27	53	54	47	53	49	59	62	48	54	48	47	48	622	52			27
28	50	54	52	58	52	53	48	49	44	52	51	44	607	51			28
29	51	56	55	52	56	50	53	48	53	48	51	44	617	51			29
30	50	51	46	39	58	45	43	40	48	50	38	43	551	46			30
31																	31
Sum	1303	1379	1340	1359	1364	1390	1368	1366	1428	1346	1339	1329	16311	1361	45.4	(30 days)	
Mean	43.4	46.0	44.7	45.3	45.5	46.3	45.6	45.5	47.6	44.9	44.6	44.3	543.7				
													45.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 149

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	43	47	50	48	41	37	45	34	43	38	41	36	503	42			1
2	40	43	39	39	40	45	38	52	53	32	48	33	502	42			2
3	48	46	42	44	35	34	37	44	36	35	31	19	451	38			3
4	31	41	31	31	35	39	31	30	37	29	33	30	398	33			4
5	29	37	36	36	33	35	41	40	38	36	39	34	434	36			5
6	38	38	37	41	38	36	33	28	40	38	43	42	452	38			6
7	48	27	31	47	43	44	43	38	42	37	48	55	503	42			7
8	56	50	53	47	54	56	50	61	58	56	47	50	638	53			8
9	53	55	53	53	59	50	53	46	44	48	46	45	605	50			9
10	46	44	51	48	44	55	49	48	46	52	48	47	578	48			10
11	53	47	57	50	60	47	47	53	48	43	41	41	587	49			11
12	33	39	47	46	41	44	46	52	40	41	36	39	504	42			12
13	34	43	44	52	54	53	54	51	54	51	58	50	598	50			13
14	56	64	61	50	57	64	58	63	64	58	63	56	714	60			14
15	64	59	69	64	66	64	57	62	55	63	59	58	740	62			15
16	56	59	61	57	64	57	63	64	59	62	60	67	729	61			16
17	53	60	50	53	56	50	59	51	47	51	59	52	641	53			17
18	56	51	60	39	49	39	45	49	40	47	47	45	567	47			18
19	38	49	49	42	42	47	46	48	45	53	42	42	543	45			19
20	47	54	45	43	58	49	58	58	67	73	69	73	694	58			20
21	66	64	65	65	59	54	64	62	58	60	52	62	731	61			21
22	62	55	53	67	57	62	64	60	62	52	56	54	704	59			22
23	55	42	54	51	55	62	65	64	61	72	71	60	712	59			23
24	70	62	69	69	70	69	67	64	59	67	63	60	789	66			24
25	65	64	59	66	60	61	62	59	63	55	54	50	718	60			25
26	54	59	53	49	53	52	51	54	55	57	59	52	648	54			26
27	60	56	53	55	54	57	52	58	56	59	65	58	683	57			27
28	71	61	62	69	64	54	63	64	64	61	63	60	756	63			28
29	58	62	52	60	53	54	58	56	57	61	58	50	679	57			29
30	51	53	47	50	41	57	51	53	45	48	60	52	608	51			30
31	54	55	60	58	62	62	62	54	54	53	66	58	698	58			31
Sum	1588	1586	1593	1589	1597	1589	1612	1620	1590	1588	1625	1530	19107	1594	51.4	(31 days)	
Mean	51.2	51.2	51.4	51.3	51.5	51.3	52.0	52.3	51.3	51.2	52.4	49.4	6165				
													51.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 150

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	55	54	57	53	56	58	58	61	60	58	62	56	688	57			1
2	57	57	52	55	55	54	54	56	62	62	66	54	684	57			2
3	65	57	69	68	68	70	72	68	71	72	77	76	833	69			3
4	69	72	77	75	77	71	74	68	73	72	67	66	861	72			4
5	69	71	62	58	67	72	68	65	70	71	65	65	803	67			5
6	67	62	65	56	65	68	69	74	70	69	70	68	803	67			6
7	69	61	63	62	64	65	70	65	65	63	65	56	768	64			7
8	61	63	63	57	57	66	49	61	59	63	56	58	713	59			8
9	51	54	54	62	62	61	58	60	60	62	55	56	695	58			9
10	64	54	61	64	61	56	69	65	57	56	62	57	726	60			10
11	56	50	63	60	57	70	64	67	63	50	62	57	719	60			11
12	52	57	56	50	48	56	56	61	60	55	52	51	654	54			12
13	37	45	54	56	47	53	51	51	56	51	57	51	609	51			13
14	58	45	54	57	57	58	56	64	69	60	68	59	705	59			14
15	67	70	66	69	55	62	64	65	70	73	71	69	801	67			15
16	75	65	59	69	67	70	66	66	73	71	74	68	823	69			16
17	70	68	69	64	62	68	78	81	79	77	67	77	860	72			17
18	76	76	70	72	77	67	78	78	70	71	75	68	878	73			18
19	70	66	73	69	71	68	78	68	64	73	72	67	839	70			19
20	74	80	71	67	71	63	79	80	71	65	73	69	863	72			20
21	78	80	71	85	77	79	81	72	76	78	75	78	930	78			21
22	76	69	75	75	71	70	65	77	66	71	75	70	860	72			22
23	70	71	67	65	70	72	65	70	60	64	71	71	816	68			23
24	64	68	62	69	64	62	60	59	64	59	58	60	749	62			24
25	57	57	58	62	60	61	63	55	68	62	55	57	715	60			25
26	65	54	61	69	68	57	60	59	66	66	58	56	739	62			26
27	68	57	65	62	60	59	57	50	54	54	50	65	701	58			27
28	62	64	64	58	49	56	46	55	54	58	56	60	682	57			28
29	64	60	67	57	65	56	57	70	65	65	54	71	751	63			29
30	57	59	58	61	67	70	66	56	64	66	58	57	739	62			30
31																	31
Sum	1923	1866	1906	1906	1895	1918	1931	1947	1959	1937	1926	1893	23007	1919	64.0	(30 days)	
Mean	64.1	62.2	63.5	63.5	63.2	63.9	64.4	64.9	65.3	64.6	64.2	63.1	766.9				
													63.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 151

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1937

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	67	63	59	68	70	79	74	73	70	64	68	66	821	68			1
2	71	69	74	69	89	64	75	79	69	76	77	73	885	74			2
3	76	77	71	71	82	77	66	78	68	68	71	72	877	73			3
4	66	68	75	77	70	71	71	60	75	75	73	76	857	71			4
5	73	66	70	74	77	75	73	74	64	78	64	74	862	72			5
6	61	70	68	75	77	78	71	80	84	81	85	75	905	75			6
7	76	74	94	80	79	92	86	93	82	83	76	75	990	82			7
8	74	75	80	77	76	79	74	82	75	73	76	73	914	76			8
9	73	80	69	79	70	89	85	79	81	86	78	73	942	78			9
10	73	75	76	67	78	81	82	85	84	69	82	82	934	78			10
11	84	68	79	74	74	82	81	76	81	72	82	78	931	78			11
12	77	73	78	76	82	76	77	83	73	83	69	71	918	76			12
13	76	68	68	64	67	80	74	71	83	76	75	73	875	73			13
14	73	68	66	71	73	66	74	71	76	76	76	74	864	72			14
15	64	68	65	70	67	75	67	70	65	68	66	70	815	68			15
16	69	65	69	67	58	60	68	59	62	60	60	61	758	63			16
17	57	57	59	63	65	65	64	64	71	68	54	71	758	63			17
18	58	57	55	66	60	50	54	62	66	55	57	59	699	58			18
19	60	57	57	53	68	64	71	66	64	67	57	68	752	63			19
20	63	60	62	60	61	68	73	72	73	77	66	59	794	66			20
21	69	61	71	73	74	79	74	71	64	66	74	65	841	70			21
22	65	70	69	62	54	65	60	55	66	59	58	57	742	62			22
23	63	59	56	39	62	57	58	70	61	57	58	47	687	57			23
24	50	57	60	50	60	55	58	61	55	56	58	[ ]	(620)	(56)^{11}			24
25	[	]	51	55	47	54	58	55	56	55	54	52	(537)	(54)^{10}			25
26	59	54	59	60	72	70	76	79	66	65	57	63	780	65			26
27	62	69	68	71	75	64	71	69	61	62	59	63	794	66			27
28	71	57	60	52	58	66	68	65	66	69	66	60	758	63			28
29	64	67	68	64	61	68	65	66	71	72	74	70	810	68			29
30	65	69	68	62	73	67	73	76	70	71	72	74	840	70			30
31	65	70	60	70	68	69	70	69	69	68	63	65	806	67			31
Sum	1974	1934	1973	1954	2040	2076	2075	2097	2060	2044	1993	1987	24209	2015	69.5	(29 days)	
Mean	68.1	66.7	68.0	67.4	70.3	71.6	71.6	72.3	71.0	70.5	68.7	68.5	834.7	2125	68.5	(31 days)	
													69.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 152

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	68	62	61	63	63	66	66	71	67	76	75	77		815	68			1
2	68	66	67	72	71	73	66	81	76	70	77	69		856	71			2
3	66	64	72	64	64	71	66	80	77	71	80	81		856	71			3
4	69	68	68	81	78	67	73	73	72	75	66	71		861	72			4
5	72	70	69	69	75	64	73	73	70	76	67	61		839	70			5
6	71	64	71	60	71	73	70	67	74	64	70	68		823	69			6
7	66	58	57	58	60	62	71	70	67	76	65	72		782	65			7
8	71	65	71	81	71	76	72	80	73	78	81	79		898	75			8
9	68	79	71	73	73	74	74	77	75	75	77	74		890	74			9
10	82	76	75	76	67	66	75	75	71	76	79	71		889	74			10
11	77	75	79	77	76	77	74	76	72	71	72	76		902	75			11
12	81	81	70	68	72	77	74	67	71	72	75	75		883	74			12
13	75	79	81	79	77	71	71	75	83	75	72	72		910	76			13
14	69	68	78	75	73	61	70	75	76	71	77	67		860	72			14
15	74	74	69	71	83	72	79	79	70	71	59	72		873	73			15
16	69	59	63	61	67	65	69	63	63	56	46	25		706	59			16
17	7	17	5	10	14	23	17	24	25	8	18	27		195	16			17
18	20	25	25	27	39	36	48	46	36	46	38	43		429	36			18
19	49	42	48	48	45	45	49	55	48	47	43	47		566	47			19
20	48	46	49	47	53	46	47	48	54	47	52	47		584	49			20
21	46	50	49	51	46	49	57	54	51	49	49	43		594	50			21
22	37	20	20	19	15	33	21	37	35	33	26	27		323	27			22
23	32	21	32	35	43	46	47	40	40	38	37	35		446	37			23
24	34	28	35	40	44	43	50	43	47	42	49	37		492	41			24
25	37	37	38	36	36	29	38	25	24	21	26	29		376	31			25
26	35	42	42	24	29	38	38	46	50	59	57	59		519	43			26
27	61	67	67	67	66	53	69	64	67	71	73	69		794	66			27
28	69	66	74	68	70	75	70	69	68	67	62	68		826	69			28
29	62	59	62	57	53	57	66	65	55	56	54	54		700	58			29
30	57	61	56	57	62	58	53	53	60	60	63	66		706	59			30
31	66	57	69	64	60	56	66	55	68	71	71	65		768	64			31
Sum	1806	1746	1793	1778	1816	1802	1879	1906	1885	1868	1856	1826		21961	1891	59.1	(31 days)	
Mean	58.3	56.3	57.8	57.4	58.6	58.1	60.6	61.5	60.8	60.3	59.9	58.9		708.5				
														59.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 153

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	62	67	56	69	72	62	72	65	74	75	72	67		813	68			1
2	56	66	66	58	68	65	57	60	64	68	59	54		741	62			2
3	53	59	56	56	60	61	66	62	63	61	64	58		719	60			3
4	64	60	52	57	57	64	63	63	64	74	70	66		754	63			4
5	60	61	60	68	67	59	63	64	63	70	65	51		751	63			5
6	63	61	65	59	52	57	58	56	57	42	48	47		665	55			6
7	54	46	49	48	50	50	53	57	54	54	61	56		632	53			7
8	50	60	54	47	50	59	57	54	47	54	44	58		634	53			8
9	53	51	43	49	47	47	42	39	41	45	30	50		537	45			9
10	44	49	47	37	44	46	50	51	51	53	54	57		583	49			10
11	51	49	44	48	53	51	58	55	58	49	54	53		623	52			11
12	50	52	50	46	53	58	57	59	56	54	50	46		631	53			12
13	60	53	50	54	47	51	38	48	44	45	44	33		567	47			13
14	41	36	41	43	39	37	36	46	41	48	48	43		499	42			14
15	43	52	48	53	61	51	63	56	54	49	48	54		632	53			15
16	54	53	58	56	59	62	63	48	56	54	58	57		678	56			16
17	56	61	61	56	56	56	59	50	50	55	46	59		665	55			17
18	54	49	51	46	55	48	54	58	52	50	53	45		615	51			18
19	67	48	58	55	61	52	53	58	51	58	59	57		677	56			19
20	50	64	58	64	65	65	70	73	68	63	71	62		773	64			20
21	70	58	64	58	62	68	60	64	56	60	63	66		749	62			21
22	68	64	66	59	68	64	69	64	69	69	59	67		786	66			22
23	65	63	67	64	63	68	66	66	64	63	64	63		776	65			23
24	72	74	74	72	78	77	78	71	73	81	79	81		910	76			24
25	71	78	74	84	73	83	86	88	85	81	80	86		969	81			25
26	87	86	80	81	79	78	83	83	85	67	70	72		951	79			26
27	74	81	73	76	71	77	73	76	71	72	76	73		893	74			27
28	88	77	91	80	82	86	85	86	81	80	82	88		1006	84			28
29																		29
30																		30
31																		31
Sum	1680	1678	1656	1643	1692	1702	1732	1720	1692	1694	1671	1669		20229	1687	60.2	(28 days)	
Mean	60.0	59.9	59.1	58.7	60.4	60.8	61.9	61.4	60.4	60.5	59.7	59.6		722.4				
														60.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 154

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^b	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	77	78	73	78	69	82	72	70	75	69	57	66		866	72			1
2	65	62	70	66	62	68	63	61	75	65	68	65		790	66			2
3	68	64	61	66	66	76	65	67	71	71	68	72		815	68			3
4	70	73	68	68	72	66	70	76	71	76	65	65		840	70			4
5	57	59	63	54	62	70	63	59	62	56	51	52		708	59			5
6	54	55	43	62	59	55	64	68	68	68	72	66		734	61			6
7	73	71	65	66	79	66	64	73	67	71	75	67		837	70			7
8	73	74	64	77	72	67	70	75	70	69	67	80		858	72			8
9	69	70	67	64	60	72	77	75	70	70	71	68		833	69			9
10	66	66	68	70	71	79	70	74	74	73	73	72		856	71			10
11	75	79	72	77	72	73	76	74	78	77	68	78		899	75			11
12	80	70	71	70	77	84	85	83	78	67	62	69		896	75			12
13	66	69	70	61	61	69	64	60	68	54	61	59		762	64			13
14	57	57	56	59	52	60	59	58	56	56	60	65		695	58			14
15	57	59	59	65	59	66	67	65	63	61	62	65		748	62			15
16	55	50	46	63	57	62	55	50	55	66	56	54		669	56			16
17	60	61	69	53	58	58	65	60	62	57	61	62		726	60			17
18	61	64	68	63	65	59	66	54	59	63	55	54		731	61			18
19	49	60	52	61	53	57	53	54	54	53	52	49		647	54			19
20	52	67	59	60	54	64	58	60	61	61	56	64		716	60			20
21	59	55	57	62	54	59	61	56	54	55	54	56		682	57			21
22	55	71	58	62	57	52	57	46	54	49	44	46		651	54			22
23	51	42	48	48	48	50	52	54	48	52	57	56		606	50			23
24	57	52	57	60	59	56	55	55	61	54	64	70		700	58			24
25	60	64	59	60	67	57	55	54	58	54	53	56		697	58			25
26	48	52	49	54	51	52	56	58	50	59	50	59		638	53			26
27	52	63	62	55	63	62	75	58	67	61	62	60		740	62			27
28	67	60	64	61	63	65	65	67	64	62	54	59		751	63			28
29	56	54	52	52	60	65	58	61	62	57	55	57		689	57			29
30	56	58	51	54	62	55	66	63	54	63	59	53		684	57			30
31	46	44	50	53	48	47	59	59	58	63	60	53		640	53			31
Sum	1891	1923	1871	1924	1902	1973	1985	1947	1967	1932	1872	1917		23104	1925	62.1	(31 days)	
Mean	61.0	62.0	60.4	62.1	61.4	63.6	64.0	62.8	63.5	62.3	60.4	61.8		745.3				
														62.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 155

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	47	53	59	61	59	50	62	65	69	55	54	55		689	57			1
2	60	49	60	60	61	61	56	58	65	63	70	62		725	60			2
3	72	72	65	65	73	65	71	76	71	73	72	66		841	70			3
4	66	64	78	71	70	74	71	66	66	66	74	68		834	70			4
5	71	69	73	62	68	65	75	72	68	67	74	65		829	69			5
6	69	73	71	63	60	52	59	59	47	56	55	57		721	60			6
7	52	43	46	56	39	53	49	47	39	44	45	43		556	46			7
8	50	43	41	42	49	50	49	45	40	44	36	37		526	44			8
9	49	41	49	50	48	50	51	51	48	50	52	57		596	50			9
10	60	55	64	65	64	60	62	53	51	65	55	48		702	58			10
11	52	36	60	51	60	61	52	53	48	49	54	45		621	52			11
12	54	57	50	53	59	64	60	52	54	50	50	55		658	55			12
13	57	71	52	37	40	48	45	36	51	33	45	34		549	46			13
14	34	17	33	27	46	43	44	52	36	38	34	33		437	36			14
15	47	28	46	37	49	45	48	44	47	32	34	34		491	41			15
16	38	36	24	24	18	23	21	24	30	31	28	27		324	27			16
17	24	27	38	44	36	32	35	34	34	33	33	36		406	34			17
18	37	31	42	45	39	38	48	38	49	37	40	44		488	41			18
19	34	54	47	47	43	51	45	40	49	40	46	47		543	45			19
20	42	53	50	40	40	46	45	46	40	46	47	50		545	45			20
21	46	52	41	53	51	57	44	42	49	51	36	44		566	47			21
22	52	59	49	51	48	48	54	48	56	49	51	50		615	51			22
23	50	58	56	61	55	56	57	55	49	44	46	54		641	53			23
24	51	53	52	49	52	50	54	53	50	45	51	45		605	50			24
25	51	55	53	47	56	55	58	53	45	48	45	51		617	51			25
26	54	49	49	51	59	55	52	60	49	51	47	46		622	52			26
27	54	42	56	56	51	56	52	52	50	45	47	43		604	50			27
28	45	59	50	51	51	49	51	54	62	51	46	49		618	52			28
29	53	51	58	60	55	46	62	58	64	71	50	58		686	57			29
30	61	61	64	64	66	65	61	64	61	59	61	71		758	63			30
31																		31
Sum	1532	1511	1576	1543	1565	1568	1593	1550	1537	1486	1478	1474		18413	1532	51.1	(30 days)	
Mean	51.1	50.4	52.5	51.4	52.2	52.3	53.1	51.7	51.2	49.5	49.3	49.1		613.8				
														51.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 156

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	56	55	62	58	63	64	63	56	65	65	60	57	724	60			1
2	63	58	50	58	51	55	59	52	49	43	54	61	653	54			2
3	55	52	45	48	50	52	57	55	57	57	50	58	636	53			3
4	57	57	55	58	57	54	62	60	55	55	55	58	683	57			4
5	53	53	58	49	51	56	59	52	51	47	48	44	621	52			5
6	47	52	55	55	62	55	63	57	58	64	55	60	683	57			6
7	58	49	53	50	55	57	55	52	58	43	54	49	633	53			7
8	49	51	48	50	44	56	53	52	46	50	46	41	586	49			8
9	43	44	41	51	43	48	52	60	53	61	52	61	609	51			9
10	57	55	57	46	67	60	69	65	55	66	57	53	707	59			10
11	58	60	49	53	59	69	51	54	57	56	40	57	663	55			11
12	52	50	52	48	55	47	54	49	47	55	48	52	609	51			12
13	50	53	53	56	51	58	52	58	50	45	51	44	621	52			13
14	48	48	39	47	44	39	43	41	45	42	45	41	522	44			14
15	39	37	45	45	42	59	49	37	47	49	49	40	538	45			15
16	41	41	46	53	49	58	43	43	46	48	45	43	556	46			16
17	49	45	46	47	50	49	42	39	34	41	38	44	524	44			17
18	48	40	40	39	41	44	42	47	39	42	38	39	499	42			18
19	47	42	42	44	50	52	45	38	47	39	33	47	526	44			19
20	45	43	57	42	29	52	54	59	38	43	39	34	535	45			20
21	50	38	46	44	44	50	57	47	45	49	47	45	562	47			21
22	45	56	52	53	54	61	53	48	44	57	59	49	631	53			22
23	48	48	50	50	50	55	55	46	50	50	45	51	598	50			23
24	48	53	43	53	57	52	53	47	51	52	48	56	613	51			24
25	59	53	41	49	52	49	46	49	44	44	42	41	569	47			25
26	43	45	43	49	49	46	48	47	48	48	33	45	544	45			26
27	45	45	37	45	40	49	45	48	41	36	39	44	514	43			27
28	52	53	45	48	52	52	47	53	54	47	45	47	595	50			28
29	50	46	36	53	45	38	43	45	55	40	45	54	550	46			29
30	46	49	48	57	53	46	54	47	55	48	54	48	605	50			30
31	49	55	43	42	49	46	48	55	47	45	51	44	574	48			31
Sum	1550	1526	1477	1540	1558	1628	1616	1558	1531	1527	1465	1507	18483	1543	49.8	(31 days)	
Mean	50.0	49.2	47.6	49.7	50.3	52.5	52.1	50.3	49.4	49.3	47.3	48.6	596.3				
													49.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 157

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	47	42	47	46	50	49	49	51	56	48	51	47	583	49			1
2	39	43	50	47	47	64	50	50	52	48	44	54	588	49			2
3	45	50	50	47	50	57	54	51	39	53	53	58	607	51			3
4	48	50	55	57	57	59	55	59	54	53	44	49	640	53			4
5	46	57	47	45	51	63	58	55	63	51	59	44	639	53			5
6	54	51	51	44	41	54	52	48	50	45	42	48	580	48			6
7	46	42	42	54	45	52	58	46	49	42	35	45	556	46			7
8	40	43	33	37	45	42	36	43	41	39	35	43	477	40			8
9	47	45	49	43	47	54	43	37	44	37	38	35	519	43			9
10	40	43	39	42	51	48	44	38	39	46	31	36	497	41			10
11	41	48	48	39	49	41	40	31	49	36	45	41	508	42			11
12	35	48	35	44	50	47	48	48	46	40	37	36	514	43			12
13	52	45	[										97*	(48) 2			13
14																	14
15																	15
16							]	54	47	49	48	54	252*	(50) 5			16
17	46	59	48	55	56	55	52	49	45	41	51	54	611	51			17
18	49	54	54	53	49	47	53	50	56	48	52	54	619	52			18
19	61	47	55	51	53	66	52	62	45	46	39	57	634	53			19
20	51	44	54	51	47	53	49	53	51	47	53	51	604	50			20
21	61	46	46	53	54	51	48	56	46	46	51	37	595	50			21
22	40	47	58	47	49	56	53	49	57	54	48	47	605	50			22
23	45	55	48	46	47	54	47	56	52	49	47	56	602	50			23
24	43	56	54	53	57	48	48	51	51	50	51	42	604	50			24
25	52	47	51	52	52	53	54	57	47	58	44	56	623	52			25
26	53	53	43	47	48	[			]	49	50	48	391*	(49) 8			26
27	50	53	46	48	47	43	57	53	46	44	52	44	583	49			27
28	51	53	56	55	55	52	61	62	60	60	63	60	688	57			28
29	58	56	57	60	49	58	57	52	56	50	61	53	667	56			29
30	49	57	51	52	57	54	50	57	54	53	46	58	638	53			30
31																	31
Sum	1184	1236	1224	1221	1255	1320	1268	1264	1248	1184	1172	1205	14781	1231	49.2	(25 days)	
Mean	47.4	49.4	49.0	48.8	50.2	52.8	50.7	50.6	49.9	47.4	46.9	48.2	591.3	1378	49.2	(28 days)	
													49.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	54	52	46	48	49	48	42	51	46	45	47	48		576	48			1
2	43	52	54	49	41	43	44	51	48	39	42	38		544	45			2
3	43	38	52	41	48	51	47	55	47	48	42	40		552	46			3
4	48	52	52	53	47	50	51	47	46	52	38	44		580	48			4
5	48	48	53	51	47	49	50	52	39	43	45	50		575	48			5
6	50	48	43	47	47	47	52	52	47	49	45	44		571	48			6
7	45	44	45	45	43	46	43	51	46	37	43	47		535	45			7
8	44	49	48	52	50	52	43	42	42	49	52	51		574	48			8
9	51	49	45	43	53	48	44	48	43	53	48	39		564	47			9
10	42	49	42	53	56	55	49	42	42	42	40	51		563	47			10
11	42	45	51	45	43	48	51	48	46	48	48	51		566	47			11
12	58	51	45	49	51	57	54	55	44	46	46	46		602	50			12
13	49	50	52	57	60	57	45	46	39	45	42	49		591	49			13
14	47	41	42	42	38	42	41	48	41	51	38	40		511	43			14
15	48	40	47	36	37	38	40	36	45	38	42	43		490	41			15
16	36	44	44	38	46	47	49	43	41	42	47	38		515	43			16
17	39	46	43	46	33	43	41	37	45	42	46	41		502	42			17
18	45	45	35	41	49	45	49	53	43	46	48	41		540	45			18
19	43	44	37	46	47	47	51	48	47	43	50	38		541	45			19
20	53	47	48	43	40	46	48	53	40	44	50	51		563	47			20
21	[			]	40	[				]	50	48		138*	(46)^{3}			21
22	48	41	48	41	36	49	[			]	48	48		359*	(45)^{8}			22
23	48	40	39	48	49	44	55	50	48	47	44	47		559	47			23
24	58	47	45	40	48	48	47	57	47	59	57	47		600	50			24
25	48	53	47	41	40	40	50	48	52	62	55	57		593	49			25
26	47	57	46	47	56	46	57	60	49	45	54	57		621	52			26
27	47	48	43	46	49	52	48	52	57	40	52	50		584	49			27
28	41	45	52	43	46	57	45	42	50	56	47	42		566	47			28
29	44	52	45	55	48	47	49	56	48	56	41	46		587	49			29
30	44	47	47	52	56	46	49	48	48	42	51	40		570	48			30
31	53	46	48	54	42	53	53	54	45	50	36	47		681	48			31
Sum	1358	1369	1336	1351	1359	1392	1387	1425	1321	1359	1336	1323		16316*	*1361	46.9	(29 days)	
Mean	46.8	47.2	46.1	46.6	46.9	48.0	47.8	49.1	45.6	46.9	46.1	45.6		562.7	1452	46.8	(31 days)	
														46.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 159

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	42	42	48	37	45	44	43	37	39	36	34	34		481	40			1
2	38	40	41	49	38	43	38	48	48	43	36	42		504	42			2
3	44	45	44	40	35	45	40	38	35	41	29	28		464	39			3
4	32	27	33	23	30	37	29	35	25	33	25	33		362	30			4
5	37	30	35	33	35	28	34	33	35	36	36	38		410	34			5
6	30	28	31	37	48	40	31	45	42	42	37	41		452	38			6
7	36	43	35	42	42	43	48	43	48	52	45	43		520	43			7
8	55	40	45	38	45	45	41	40	49	44	43	49		534	44			8
9	40	50	47	55	47	39	56	46	50	53	42	48		573	48			9
10	43	38	52	43	49	54	57	41	44	42	31	36		530	44			10
11	34	38	36	36	42	52	38	50	36	41	39	40		482	40			11
12	46	50	47	48	50	43	38	39	38	37	38	52		526	44			12
13	44	46	51	44	52	48	48	39	46	42	41	43		544	45			13
14	42	36	37	42	43	48	39	52	46	55	43	45		528	44			14
15	43	42	43	43	48	43	48	48	49	48	51	45		551	46			15
16	52	46	42	37	48	49	57	55	45	55	55	44		585	49			16
17	48	43	43	38	44	43	47	46	49	61	44	55		561	47			17
18	48	42	49	51	47	45	51	47	53	54	49	43		579	48			18
19	47	51	42	51	47	52	54	53	48	53	52	54		604	50			19
20	46	46	47	46	51	51	50	50	47	49	55	47		585	49			20
21	52	56	46	52	46	59	45	53	50	55	51	50		615	51			21
22	51	55	55	55	57	57	56	48	50	44	52	44		624	52			22
23	39	54	46	43	50	46	49	42	45	46	47	42		549	46			23
24	36	45	42	44	54	50	48	52	50	48	46	47		562	47			24
25	44	40	41	54	51	57	52	52	49	45	46	42		573	48			25
26	42	49	47	44	48	47	42	58	44	54	50	40		565	47			26
27	45	42	35	43	35	47	54	51	42	46	50	48		538	45			27
28	46	45	46	53	48	53	53	47	42	50	52	48		583	49			28
29	45	51	48	50	54	49	52	62	48	45	52	50		606	50			29
30	42	43	45	47	52	48	46	48	41	41	46	57		556	46			30
31	45	45	55	48	48	48	55	43	44	44	45	47		567	47			31
Sum	1334	1348	1354	1366	1429	1453	1439	1441	1377	1435	1362	1375		16713	1392	44.9	(31 days)	
Mean	43.0	43.5	43.7	44.1	46.1	46.9	46.4	46.5	44.4	46.3	43.9	44.4		539.2				
														44.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 160

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	45	50	47	47	43	48	54	53	44	56	51	46	584	49			1
2	49	42	58	52	60	48	54	52	52	55	51	51	624	52			2
3	47	57	51	49	61	56	54	62	57	62	50	50	656	55			3
4	45	51	56	50	50	53	43	51	49	48	43	48	587	49			4
5	48	44	52	49	56	59	51	56	55	49	53	47	619	52			5
6	46	51	60	55	62	57	65	55	59	49	39	54	652	54			6
7	48	51	48	55	47	54	46	53	44	52	41	50	589	49			7
8	41	46	52	57	42	52	53	52	47	48	51	56	597	50			8
9	51	60	50	59	57	59	54	51	50	60	47	45	633	53			9
10	52	50	52	49	54	59	54	52	49	53	47	47	618	52			10
11	52	54	49	51	55	46	53	51	49	49	48	52	609	51			11
12	50	40	49	54	45	52	53	56	48	46	55	49	597	50			12
13	50	52	45	50	46	55	54	55	52	56	48	42	605	50			13
14	42	37	38	46	39	43	45	40	37	47	31	43	488	41			14
15	47	49	53	52	52	52	52	44	49	47	42	44	578	48			15
16	48	54	46	49	56	55	53	55	62	51	47	46	622	52			16
17	51	45	48	50	49	56	54	54	53	50	54	53	617	51			17
18	46	50	45	40	47	49	47	48	42	47	42	45	548	46			18
19	42	46	46	47	39	41	41	47	45	50	52	49	545	45			19
20	46	42	47	52	51	57	48	54	47	51	53	52	600	50			20
21	50	55	45	46	40	53	57	58	60	60	48	55	627	52			21
22	45	50	49	50	61	55	62	59	55	59	55	46	646	54			22
23	43	37	35	36	47	41	35	34	34	35	28	39	444	37			23
24	39	38	51	44	40	44	41	41	39	44	37	44	502	42			24
25	54	50	56	56	55	50	60	56	44	56	51	56	644	54			25
26	56	53	41	54	48	44	47	39	33	38	50	41	544	45			26
27	44	49	43	52	40	38	40	43	33	40	33	37	492	41			27
28	35	39	35	31	27	34	35	32	36	36	31	41	412	34			28
29	30	35	39	30	36	39	46	27	34	34	41	39	430	36			29
30	34	45	42	37	39	28	34	33	40	34	30	40	436	36			30
31																	31
Sum	1376	1417	1428	1449	1444	1477	1485	1463	1398	1452	1349	1407	17145	1430	47.7	(30 days)	
Mean	45.9	47.2	47.6	48.3	48.1	49.2	49.5	48.8	46.6	48.4	450	46.9	571.5				
													47.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 161

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	27	32	37	39	34	38	35	41	46	41	41	42	453	38			1
2	38	44	42	41	48	43	46	44	42	38	42	49	517	43			2
3	44	47	39	56	54	46	46	45	55	38	46	46	562	47			3
4	47	50	51	47	51	58	48	55	52	52	55	49	615	51			4
5	56	49	49	42	51	50	58	52	49	55	50	55	616	51			5
6	50	42	44	47	57	54	54	58	53	65	46	49	619	52			6
7	43	50	51	59	51	70	62	61	58	61	59	51	676	56			7
8	48	53	57	54	46	54	57	52	46	46	51	46	610	51			8
9	45	45	31	48	42	44	48	49	43	45	57	61	558	46			9
10	55	52	53	56	52	54	52	54	52	52	50	53	635	53			10
11	45	43	44	63	46	50	53	56	51	58	54	51	614	51			11
12	47	49	48	57	53	57	64	55	61	52	59	61	663	55			12
13	59	56	51	46	44	52	69	65	64	53	55	57	671	56			13
14	57	62	58	59	57	63	64	56	53	49	59	61	698	58			14
15	59	55	66	48	54	54	57	57	51	57	52	59	669	56			15
16	58	63	57	53	53	53	56	53	57	52	54	59	668	56			16
17	57	56	50	54	53	61	48	58	57	52	49	54	649	54			17
18	54	46	46	47	57	47	58	58	46	58	52	57	626	52			18
19	48	47	60	55	53	54	52	54	44	48	53	51	619	52			19
20	60	55	58	47	51	57	57	52	49	56	59	50	651	54			20
21	54	60	60	57	56	62	56	60	63	63	51	66	708	59			21
22	50	65	56	57	65	47	54	53	50	54	51	48	650	54			22
23	48	49	52	53	52	52	55	52	56	53	47	56	625	52			23
24	49	53	41	53	49	53	42	52	58	50	48	56	604	50			24
25	60	60	59	53	62	65	50	55	60	59	57	65	705	59			25
26	61	55	53	57	53	54	48	47	56	48	57	57	646	54			26
27	51	56	59	55	53	62	49	57	56	59	54	55	666	56			27
28	58	56	58	58	57	64	60	64	61	57	55	55	703	59			28
29	55	64	52	57	60	66	61	66	58	61	57	57	714	60			29
30	64	66	54	64	64	61	64	63	63	55	59	54	731	61			30
31	59	57	60	62	49	73	60	64	69	60	53	63	729	61			31
Sum	1606	1637	1596	1644	1627	1718	1683	1708	1679	1647	1632	1693	19870	1657	53.5	(31 days)	
Mean	51.8	52.8	51.5	53.0	52.5	55.4	54.3	55.1	54.2	53.1	52.6	54.6	640.9				
													53.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 162

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean				Day
1	61	63	60	59	60	64	57	58	60	50	53	57		702	58				1
2	59	52	55	50	57	58	56	64	56	53	51	51		662	55				2
3	44	48	53	57	56	54	60	57	50	50	54	59		642	54				3
4	53	63	48	59	56	60	57	62	62	55	59	56		690	58				4
5	53	59	52	56	51	52	50	60	51	54	51	49		638	53				5
6	57	57	49	58	57	54	60	59	55	63	61	60		690	58				6
7	58	60	55	59	53	61	60	54	54	54	48	58		674	56				7
8	58	54	60	62	51	61	55	64	63	63	62	61		714	60				8
9	68	72	59	62	64	53	62	68	61	63	50	61		743	62				9
10	61	50	62	55	50	56	61	57	57	54	59	50		672	56				10
11	46	55	53	49	56	44	61	52	60	62	60	58		656	55				11
12	50	52	53	47	48	54	48	62	57	53	62	54		640	53				12
13	66	51	55	54	64	65	64	65	54	64	61	55		718	60				13
14	51	51	53	69	70	66	72	70	74	80	70	57		783	65				14
15	60	59	75	69	67	65	63	64	62	60	54	53		751	63				15
16	53	55	56	64	60	66	68	53	64	51	56	49		695	58				16
17	44	54	43	47	49	48	47	56	51	58	51	47		595	50				17
18	47	53	46	49	51	53	49	52	56	49	50	49		604	50				18
19	42	53	44	50	51	50	59	59	54	60	57	58		637	53				19
20	60	57	62	63	58	54	63	65	66	54	59	62		723	60				20
21	57	58	61	56	53	62	61	58	55	51	56	55		683	57				21
22	68	56	52	70	65	60	59	47	60	67	60	62		726	60				22
23	55	59	60	62	55	62	64	57	61	61	64	60		720	60				23
24	67	67	66	64	61	53	60	61	68	59	60	61		747	62				24
25	69	70	67	72	61	68	72	63	70	58	73	69		812	68				25
26	68	75	66	73	76	78	69	71	72	77	70	73		868	72				26
27	74	80	66	72	79	74	79	85	79	84	76	73		921	77				27
28	69	77	78	74	85	80	82	74	74	71	75	69		908	76				28
29	64	65	75	71	73	72	69	67	68	65	62	68		819	68				29
30	69	68	59	62	58	68	70	67	73	62	68	65		789	66				30
31																			31
Sum	1751	1793	1743	1814	1795	1815	1857	1851	1847	1805	1792	1759		21622	1803	60.1		(30 days)	
Mean	58.4	59.8	58.1	605	59.8	605	61.9	61.7	61.6	60.2	59.7	58.6		720.8					
														60.1					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 163

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1938

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Tahle--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean				Day
1	68	65	61	65	72	68	74	74	70	68	63	62		810	68				1
2	67	69	64	69	66	65	73	69	67	62	59	59		789	66				2
3	62	66	67	62	57	67	70	65	67	68	66	60		777	65				3
4	61	62	57	59	69	65	66	74	61	65	64	63		766	64				4
5	57	60	59	55	56	64	69	67	63	57	60	65		732	61				5
6	72	67	75	72	67	66	67	71	78	67	72	77		851	71				6
7	71	66	69	68	65	69	71	75	70	72	72	75		843	70				7
8	62	67	69	69	65	77	65	75	69	69	63	72		822	68				8
9	69	74	70	64	68	71	71	69	67	77	73	78		851	71				9
10	75	65	66	70	73	79	70	67	63	60	59	63		810	68				10
11	65	59	62	57	57	65	64	59	55	60	57	61		721	60				11
12	60	48	45	57	54	52	57	56	57	69	65	64		684	57				12
13	67	62	67	65	70	72	68	67	59	69	63	59		788	66				13
14	71	59	60	63	61	60	63	65	66	56	63	57		744	62				14
15	65	68	61	57	57	66	66	61	65	70	62	57		755	63				15
16	66	66	60	65	54	62	67	64	76	63	62	55		760	63				16
17	55	55	61	54	60	67	65	55	59	58	56	54		699	58				17
18	61	57	57	58	61	63	58	60	63	62	63	66		729	61				18
19	55	59	60	61	64	53	59	56	61	58	56	59		701	58				19
20	63	55	59	54	69	61	64	63	64	60	63	67		742	62				20
21	65	62	60	69	58	64	64	68	66	61	63	66		766	64				21
22	59	65	60	59	65	72	62	71	65	61	65	57		761	63				22
23	57	60	55	56	58	60	68	67	57	58	58	59		713	59				23
24	55	66	62	62	61	68	64	67	68	64	67	73		777	65				24
25	72	66	68	80	75	68	88	80	76	74	71	66		884	74				25
26	67	66	70	66	64	69	69	71	63	62	63	64		794	66				26
27	65	62	67	55	61	67	64	68	68	75	67	79		798	66				27
28	72	71	70	75	73	74	77	81	70	73	75	72		883	74				28
29	70	69	71	62	73	72	70	83	70	81	69	79		869	72				29
30	77	81	75	76	81	78	79	82	79	72	76	82		938	78				30
31	86	78	82	89	86	84	77	77	83	75	78	77		972	81				31
Sum	2037	1995	1989	1993	2020	2088	2109	2127	2065	2046	2013	2047		24529	2044	65.9		(31 days)	
Mean	65.7	64.4	642	64.3	65.2	67.4	68.0	68.6	66.6	660	64.9	66.0		791.3					
														65.9					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 164

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Tahle--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	73	69	72	70	77	70	77	68	72	72	83	80	883	74		1
2	69	71	74	78	71	70	79	73	71	69	65	60	850	71		2
3	61	67	72	70	76	60	70	68	68	68	61	60	801	67		3
4	63	66	73	65	70	74	68	65	76	70	59	61	810	68		4
5	70	62	67	71	69	69	66	67	72	64	60	67	804	67		5
6	62	61	68	68	68	75	70	76	69	66	73	68	824	69		6
7	57	62	70	61	61	61	71	65	69	69	62	70	778	65		7
8	57	68	65	67	65	79	73	68	70	65	67	61	805	67		8
9	67	60	62	65	56	58	58	63	62	59	61	61	732	61		9
10	59	58	[										(117)	(58)	2	10
11																11
12				]	63	71	72	76	70	69	[(1)		(421)	(70)	6	12
13					63	64	59	74	75	64	65	58	(522)	(65)	8	13
14	56	63	60	70	68	69	73	63	73	76	65	70	806	67		14
15	74	72	71	79	71	74	78	77	73	75	64	76	884	74		15
16	63	68	65	58	66	60	61	73	66	76	64	66	786	66		16
17	60	60	56	60	66	66	61	54	60	52	55	60	710	59		17
18	64	58	61	58	53	62	70	67	55	69	64	64	745	62		18
19	70	59	67	69	65	71	71	64	62	63	69	72	802	67		19
20	69	68	72	69	68	74	72	63	72	70	68	62	827	69		20
21	60	63	65	62	58	68	69	60	68	63	58	62	756	63		21
22	57	64	55	63	62	60	65	73	75	75	71	80	800	67		22
23	77	72	76	77	75	72	61	63	72	65	73	68	851	71		23
24	68	62	76	68	70	70	68	72	71	71	60	72	828	69		24
25	65	73	72	72	79	81	79	79	82	85	81	80	928	77		25
26	74	81	71	74	78	79	84	79	79	82	81	88	950	79		26
27	85	87	76	90	86	96	87	87	89	91	87	92	1053	88		27
28	73	80	79	80	78	87	76	71	77	75	69	64	909	76		28
29	74	65	75	72	61	67	73	75	72	67	77	72	850	71		29
30	67	63	53	61	54	64	71	69	67	63	70	77	779	65		30
31	63	76	70	78	78	87	78	81	77	80	80	74	922	77		31
Sum	1798	1820	1843	1875	1849	1923	1929	1883	1919	1900	1847	1887	22473*	1876	69.5 (27 days)	
Mean	66.6	67.4	68.3	69.4	68.5	71.2	71.4	69.7	71.1	70.4	68.4	69.9	832.3	2066	69.0 (30 days)	
													69.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 165

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Tahle--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	74	67	76	71	73	70	77	72	71	74	73	65	863	72		1
2	69	68	65	64	72	73	68	73	67	66	55	61	801	67		2
3	51	55	53	61	62	69	69	69	63	61	64	63	740	62		3
4	65	58	60	74	68	73	78	73	74	72	71	67	833	69		4
5	75	70	72	72	74	67	68	75	66	67	64	62	832	69		5
6	61	59	59	57	61	62	58	53	52	62	53	65	702	58		6
7	59	60	65	63	66	59	65	74	73	63	63	62	772	64		7
8	65	63	70	51	61	59	67	65	70	56	58	66	751	63		8
9	57	62	57	58	64	65	62	58	63	56	57	59	718	60		9
10	59	64	53	56	55	53	60	57	55	53	54	54	663	55		10
11	52	54	55	57	48	63	62	59	56	62	60	65	693	58		11
12	68	63	58	65	69	63	71	65	62	68	60	60	772	64		12
13	61	60	55	60	59	65	67	65	72	54	55	57	730	61		13
14	54	61	55	58	63	64	58	62	54	52	48	49	678	56		14
15	59	52	47	50	50	46	60	56	62	55	62	70	669	56		15
16	68	57	47	63	64	60	61	62	52	52	58	58	702	58		16
17	50	60	55	51	56	55	67	65	57	61	61	56	694	58		17
18	57	51	63	68	56	51	62	73	60	49	58	50	698	58		18
19	46	53	52	55	53	58	49	46	58	50	44	53	617	51		19
20	57	53	58	63	60	62	59	55	52	47	56	60	682	57		20
21	55	59	58	65	59	66	64	72	58	53	53	62	724	60		21
22	67	71	70	76	82	83	79	82	75	76	77	78	916	76		22
23	87	93	85	83	85	88	91	85	84	82	76	77	1016	85		23
24	68	76	67	68	77	79	79	76	81	62	66	64	863	72		24
25	64	68	66	75	75	71	74	63	72	61	55	66	810	68		25
26	53	57	58	55	53	55	64	59	56	59	55	60	684	57		26
27	55	54	61	57	57	58	66	65	61	63	67	56	720	60		27
28	59	45	64	59	60	64	53	66	65	55	56	60	706	59		28
29																29
30																30
31																31
Sum	1715	1703	1704	1755	1782	1801	1858	1845	1791	1691	1679	1725	21049	1753	62.6 (28 days)	
Mean	61.2	60.8	60.9	62.7	63.6	64.3	66.4	65.9	64.0	60.4	60.0	61.6	751.8			
													62.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 166

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760.mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	55	66	68	58	66	70	62	70	75	61	63	67		781	65			1
2	64	67	55	67	68	67	74	77	71	70	72	70		822	68			2
3	63	68	68	64	69	69	62	72	69	63	60	59		786	66			3
4	63	61	65	64	63	54	61	58	59	54	50	53		705	59			4
5	57	51	57	53	61	60	52	49	51	56	50	53		650	54			5
6	54	53	54	52	54	58	58	59	56	66	58	71		693	58			6
7	63	65	65	62	62	66	70	65	70	67	61	63		779	65			7
8	65	73	66	69	70	72	74	68	72	63	62	66		820	68			8
9	59	62	67	65	64	63	70	54	58	60	54	59		735	61			9
10	65	73	65	67	60	66	74	74	68	66	60	57		795	66			10
11	63	63	59	63	66	70	62	62	61	63	61	62		755	63			11
12	62	52	62	56	56	58	61	59	66	54	64	67		717	60			12
13	70	62	71	71	62	65	67	73	66	54	64	60		785	65			13
14	62	60	51	69	52	65	61	60	66	51	63	55		715	60			14
15	55	65	53	57	52	64	58	57	59	53	59	51		683	57			15
16	59	48	51	55	59	71	65	72	73	71	71	60		755	63			16
17	68	68	72	72	76	74	73	82	77	72	77	70		881	73			17
18	66	76	74	74	80	84	82	76	80	76	77	75		920	77			18
19	65	66	72	78	76	73	71	71	63	63	64	61		823	69			19
20	62	64	67	59	66	60	68	71	64	67	67	66		781	65			20
21	66	66	68	76	66	74	79	70	63	73	67	71		839	70			21
22	66	61	66	64	68	66	79	72	65	69	60	64		800	67			22
23	59	59	53	67	61	66	68	61	61	61	57	67		740	62			23
24	65	49	59	58	59	55	57	60	64	61	61	57		705	59			24
25	57	53	55	58	51	61	62	60	55	66	55	64		697	58			25
26	59	55	53	55	50	[(3)				]	63	60		(395)*	(56)[7]			26
27	61	59	68	53	55	59	59	70	60	59	59	69		731	61			27
28	64	58	59	64	61	64	57	73	64	66	61	65		756	63			28
29	63	72	62	69	61	63	63	59	60	63	63	57		755	63			29
30	57	59	54	51	47	56	54	57	53	51	59	60		658	55			30
31	53	54	63	54	56	63	69	68	69	63	65	63		740	62			31
Sum	1851	1853	1869	1889	1867	1956	1972	1979	1938	1882	1864	1882		22802	1902	63.4	(30 days)	
Mean	61.7	61.8	62.3	63.0	62.2	65.2	65.7	66.0	64.6	62.7	62.1	62.7		760.0	1958	63.2	(31 days)	
														63.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 167

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	65	60	63	55	56	69	61	67	57	64	66	59		742	62			1
2	63	64	70	74	72	68	66	69	67	58	61	71		803	67			2
3	73	64	64	70	72	74	[	]	66	66	72	76		(697)	(70)[10]			3
4	74	69	71	71	80	74	76	78	69	67	67	68		864	72			4
5	64	65	65	66	60	64	61	65	64	60	51	55		740	62			5
6	52	64	56	55	54	61	64	59	53	53	58	64		693	58			6
7	59	63	62	62	71	63	66	68	71	69	76	72		802	67			7
8	63	66	61	57	60	70	63	72	60	64	69	65		770	64			8
9	62	68	56	56	58	61	56	64	62	56	57	53		709	59			9
10	56	57	48	51	45	43	46	53	39	44	45	41		568	47			10
11	42	40	39	44	51	49	50	47	43	54	52	47		558	46			11
12	49	47	56	53	55	60	54	52	61	62	68	69		686	57			12
13	58	57	64	59	48	65	57	60	62	55	61	57		703	59			13
14	54	53	49	60	58	56	57	57	57	54	52	52		659	55			14
15	46	63	51	51	50	50	50	60	57	47	52	49		626	52			15
16	57	51	52	47	49	50	52	55	58	52	52	50		625	52			16
17	52	43	44	38	38	38	41	48	38	33	38	41		492	41			17
18	41	35	32	35	45	42	41	44	46	37	37	37		472	39			18
19	34	33	47	43	48	50	44	51	46	46	45	53		540	45			19
20	54	[(13)		]	42	40	42	44	44	42	41	42		(391)	(43)[9]			20
21	45	47	39	35	54	34	49	49	38	40	42	37		509	42			21
22	41	36	47	44	41	49	55	46	50	50	43	44		546	45			22
23	47	42	47	35	39	29	29	27	29	25	24	34		407	34			23
24	34	33	32	38	34	39	19	+16	-3	+9	7	2		260	22			24
25	3	15	24	16	16	15	12	7	8	15	17	20		168	14			25
26	26	27	26	25	27	24	19	24	26	26	31	26		307	26			26
27	35	38	36	51	41	34	38	36	31	38	37	32		447	37			27
28	38	42	37	39	43	45	39	44	44	39	35	39		484	40			28
29	51	46	54	46	47	46	53	47	56	51	53	43		593	49			29
30	51	51	53	47	49	55	59	65	60	54	57	51		652	54			30
31																		31
Sum	1362	1375	1381	1353	1389	1403	1377	1430	1349	1322	1353	1331		16425	1367	48.8	(28 days)	
Mean	48.6	49.1	49.3	48.3	49.6	50.1	49.2	51.1	48.2	47.2	48.3	47.5		586.5	1480	49.3	(30 days)	
														48.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 168

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	59	55	61	43	53	52	48	43	45	44	43	35		581	48			1
2	32	35	37	41	50	48	44	43	42	50	47	42		511	43			2
3	34	41	41	37	44	41	48	51	50	38	43	33		501	42			3
4	37	34	39	31	37	41	44	48	46	39	36	36		468	39			4
5	35	38	36	39	32	34	43	42	32	28	18	14		391	33			5
6	5	4	0	7	16	8	19	17	12	16	22	9		135	11			6
7	18	23	[^{12}											(41)	(20)^{2}			7
8							]	31	36	30	23	21		(141)	(28)^{5}			8
9	24	22	23	20	26	34	28	35	22	33	26	25		318	26			9
10	22	36	32	27	37	46	35	37	26	35	33	27		393	33			10
11	29	27	30	41	30	35	26	37	35	40	38	32		400	33			11
12	38	38	38	38	47	34	37	41	41	30	42	35		459	38			12
13	38	47	43	34	46	43	42	49	47	45	43	47		524	44			13
14	44	44	43	36	42	41	48	49	52	54	59	41		553	46			14
15	48	35	40	44	55	45	53	52	52	51	52	45		572	48			15
16	47	52	35	41	45	45	48	52	49	41	41	37		533	44			16
17	43	43	37	44	31	44	34	47	40	45	39	40		487	41			17
18	38	39	43	41	40	30	42	45	43	44	43	37		485	40			18
19	40	33	43	34	43	38	39	44	39	34	37	33		457	38			19
20	44	37	35	38	36	40	46	47	35	48	44	37		487	41			20
21	45	42	37	39	51	43	39	52	48	37	48	39		520	43			21
22	50	43	37	42	42	32	45	50	52	48	47	42		530	44			22
23	47	44	42	45	41	41	42	35	43	44	43	42		509	42			23
24	42	38	46	39	32	29	46	35	38	41	37	34		457	38			24
25	36	33	41	42	28	42	39	34	40	38	42	38		453	38			25
26	29	35	38	33	30	38	37	42	40	40	43	46		451	38			26
27	36	43	36	45	41	42	40	38	43	43	44	39		490	41			27
28	41	22	39	40	44	45	39	39	25	38	34	30		436	36			28
29	32	37	46	38	31	39	38	41	28	38	34	28		430	36			29
30	36	30	31	29	34	26	39	40	41	37	29	29		401	33			30
31	38	30	34	38	35	33	25	40	36	43	37	32		421	35			31
Sum	1089	1057	1083	1066	1119	1109	1153	1225	1142	1162	1144	1004		13353	1112	38.3	(29 days)	
Mean	37.6	36.4	37.3	36.8	38.6	38.2	39.8	42.2	39.4	40.1	39.4	34.6		460.4	1160	37.4	(31 days)	
														38.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 169

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	29	27	27	39	37	31	37	33	42	45	41	31		419	35			1
2	35	26	26	27	37	43	45	38	31	34	40	34		416	35			2
3	24	35	32	36	43	34	41	43	37	31	31	24		411	34			3
4	30	29	26	28	30	30	41	36	36	38	34	32		390	32			4
5	42	28	36	31	32	35	38	41	34	28	39	26		410	34			5
6	39	34	35	31	39	37	39	28	37	37	36	34		426	36			6
7	35	39	53	36	37	40	40	36	33	38	40	35		462	38			7
8	39	34	38	34	30	43	35	36	30	34	31	34		418	35			8
9	35	23	27	36	36	36	41	35	36	39	42	33		419	35			9
10	38	23	29	26	25	41	33	35	46	40	36	32		404	34			10
11	37	31	36	31	29	42	37	46	35	36	38	47		445	37			11
12	33	36	33	38	43	40	50	37	47	33	44	43		477	40			12
13	39	32	37	39	35	34	35	35	41	41	39	30		437	36			13
14	30	30	28	38	30	34	43	35	42	35	33	32		410	34			14
15	37	32	41	37	37	43	41	39	31	39	39	39		455	38			15
16	32	32	39	36	34	36	29	33	39	37	32	38		417	35			16
17	30	31	32	34	41	36	40	44	37	33	35	31		424	35			17
18	30	39	40	34	32	43	46	48	43	43	39	37		474	40			18
19	32	29	43	36	27	25	24	27	39	28	30	27		367	31			19
20	29	28	26	27	29	22	33	31	29	34	31	27		346	29			20
21	31	38	35	36	32	29	39	35	34	27	25	37		398	33			21
22	32	30	29	31	35	32	37	34	37	34	34	30		395	33			22
23	29	35	27	30	32	36	35	38	44	36	42	38		422	35			23
24	43	37	34	39	43	42	49	45	35	30	45	40		482	40			24
25	40	36	47	42	37	41	50	42	39	37	38	40		489	41			25
26	34	38	37	44	47	43	47	43	34	38	33	43		481	40			26
27	41	35	43	30	34	37	34	41	41	36	32	46		450	38			27
28	39	40	41	40	32	33	38	40	39	39	45	27		453	38			28
29	38	30	27	25	34	37	31	35	27	22	35	27		368	31			29
30	33	36	33	29	29	33	29	25	22	25	24	30		348	29			30
31																		31
Sum	1035	973	1037	1020	1038	1088	1157	1114	1097	1047	1083	1024		12713	1061	35.4	(30 days)	
Mean	34.5	32.4	34.6	34.0	34.6	36.3	38.6	37.1	36.6	34.9	36.1	34.1		423.8				
														35.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 170

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	30	34	26	28	41	30	32	38	29	36	35	42		401	33		1
2	33	34	38	34	35	30	27	29	34	29	38	31		392	33		2
3	35	39	35	34	42	29	40	35	34	40	32	30		425	35		3
4	42	34	39	26	31	25	34	35	26	25	25	17		359	30		4
5	23	20	17	22	25	34	27	28	25	21	26	20		288	24		5
6	29	27	28	24	23	29	32	30	37	24	23	32		338	28		6
7	34	33	21	35	29	35	28	27	25	28	27	25		347	29		7
8	29	32	43	39	36	31	30	30	34	27	38	28		397	33		8
9	39	37	33	37	37	35	32	43	27	38	39	38		435	36		9
10	41	40	35	34	46	40	44	45	39	40	42	40		486	40		10
11	41	36	40	37	49	40	53	43	49	35	47	38		508	42		11
12	41	32	43	34	38	41	40	42	43	40	35	33		462	38		12
13	35	31	34	21	31	40	31	31	33	30	34	33		384	32		13
14	28	27	31	34	26	33	29	36	34	40	35	38		391	33		14
15	37	40	38	38	40	40	39	39	45	39	34	37		466	39		15
16	42	41	37	42	40	42	37	51	45	43	39	40		499	42		16
17	41	38	37	43	42	39	35	50	47	47	40	45		504	42		17
18	38	39	35	36	36	34	37	39	42	41	33	39		449	37		18
19	37	30	25	36	37	35	33	46	39	41	36	33		428	36		19
20	42	35	34	36	33	44	38	42	42	37	35	29		447	37		20
21	34	37	42	29	34	32	36	42	37	37	48	39		447	37		21
22	35	38	34	34	36	28	39	41	37	37	35	39		433	36		22
23	37	31	31	37	39	35	35	41	37	28	36	29		416	35		23
24	32	32	35	33	41	40	37	36	33	34	37	46		436	36		24
25	35	44	36	35	52	38	46	40	39	37	42	35		479	40		25
26	37	41	41	38	36	36	35	38	33	41	35	26		437	36		26
27	37	34	32	29	41	36	38	34	43	42	36	41		443	37		27
28	39	28	39	45	43	36	42	45	37	35	34	42		465	39		28
29	51	38	42	32	47	46	45	40	44	46	38	46		515	43		29
30	46	40	46	37	38	38	41	40	47	48	39	39		499	42		30
31	38	36	40	41	47	51	49	48	48	47	44	44		533	44		31
Sum	1138	1078	1087	1060	1171	1122	1141	1204	1164	1133	1117	1094		13509	1124	36.3 (31 days)	
Mean	36.7	34.8	35.1	34.2	37.8	36.2	36.8	38.8	37.5	36.5	36.0	35.3		435.7			
														36.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 171

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	53	46	33	39	52	48	51	57	48	47	43	47		564	47		1
2	37	39	35	38	43	49	48	49	51	48	50	38		525	44		2
3	42	38	38	34	47	45	55	46	41	47	37	49		519	43		3
4	43	36	43	41	47	45	53	45	58	56	49	60		576	48		4
5	48	55	45	49	48	49	51	51	56	48	49	45		594	50		5
6	41	41	54	44	52	44	44	41	47	54	44	51		557	46		6
7	51	51	48	47	52	54	49	48	52	51	52	44		599	50		7
8	39	48	43	41	51	43	54	53	44	40	46	38		540	45		8
9	47	44	49	46	47	51	46	42	50	44	46	32		544	45		9
10	47	46	48	44	44	52	46	47	46	52	44	48		564	47		10
11	39	44	43	40	46	48	45	47	51	42	43	31		519	43		11
12	24	29	26	8	13	12	19	22	23	28	26	28		258	22		12
13	27	26	26	39	34	37	35	40	34	32	33	28		391	33		13
14	29	38	34	27	28	43	33	43	39	37	33	25		409	34		14
15	31	34	33	40	34	26	22	38	40	29	26	22		375	31		15
16	24	32	32	33	37	48	37	33	33	42	34	39		424	35		16
17	34	39	39	46	40	44	37	43	39	40	40	42		483	40		17
18	38	34	35	42	44	38	41	42	50	44	51	42		501	42		18
19	43	45	38	46	46	44	44	42	43	32	36	39		498	42		19
20	35	43	31	40	32	36	35	35	33	35	31	34		420	35		20
21	32	34	41	34	38	47	38	43	39	43	38	38		465	39		21
22	36	33	25	26	32	22	31	23	27	28	30	29		342	28		22
23	27	25	36	24	25	36	38	41	41	41	40	44		418	35		23
24	40	39	44	40	47	44	41	50	42	42	46	48		523	44		24
25	44	40	36	46	40	42	48	43	44	49	43	45		520	43		25
26	45	36	44	39	40	42	48	43	45	52	52	46		532	44		26
27	37	46	40	45	62	49	42	45	49	49	41	47		552	46		27
28	42	39	38	41	52	50	49	54	48	50	45	45		553	46		28
29	46	44	44	47	47	45	50	48	52	39	44	41		547	46		29
30	42	43	42	42	43	55	43	42	48	44	42	49		535	45		30
31	49	44	42	43	46	44	41	52	35	42	47	44		529	44		31
Sum	1212	1231	1205	1211	1309	1332	1314	1348	1348	1327	1281	1258		15376	1282	41.4 (31 days)	
Mean	39.1	39.7	38.9	39.1	42.2	43.0	42.4	43.5	43.5	42.8	41.3	40.6		496.1			
														41.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 172

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	46	44	44	46	46	46	40	45	44	40	32	39	512	43			1
2	43	41	41	43	42	47	43	37	48	44	45	38	512	43			2
3	42	39	47	43	39	36	44	41	39	31	33	32	466	39			3
4	38	33	36	38	30	43	44	26	47	35	[(15)		(370)*	(37)[10]			4
5	]	40	43	36	[ ]	47	44	40	39	38	47	46	(420)*	(42)[10]			5
6	45	46	37	46	35	39	47	46	53	36	33	37	500	42			6
7	42	38	34	31	37	42	39	32	45	44	40	35	459	38			7
8	39	37	35	33	27	32	35	40	37	33	37	32	417	35			8
9	42	38	41	32	33	40	33	45	34	43	41	36	458	38			9
10	41	[(15)		]	34	43	41	49	44	45	51	38	(386)*	(43)[9]			10
11	37	39	42	36	37	49	41	54	50	47	40	35	507	42			11
12	38	42	31	39	37	36	40	49	48	34	35	45	474	40			12
13	40	29	31	43	36	36	45	43	38	36	39	28	444	37			13
14	29	36	30	31	30	38	37	36	35	40	28	27	397	33			14
15	26	40	36	34	34	37	33	35	35	30	35	25	400	33			15
16	31	29	33	27	34	39	33	35	37	38	34	33	403	34			16
17	30	[(17)											(30)*	(30)[1]			17
18																	18
19																	19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30												]					30
31																	31
Sum	500	498	482	484	467	517	510	538	543	496	472	442	5949	497	38.2	(13 days)	
Mean	38.5	38.3	37.1	37.2	35.9	39.8	39.2	41.4	41.8	38.2	36.3	34.0	457.7	649	38.2	(17 days)	
													38.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 173

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	41	49	49	44	54	55	49	44	45	47	51	51	579	48			1
2	50	43	45	49	46	61	55	56	51	56	50	46	608	51			2
3	42	31	28	40	43	33	39	39	42	34	27	26	424	35			3
4	22	24	29	28	31	23	37	33	37	37	26	24	351	29			4
5	29	26	26	31	29	39	35	35	30	30	27	34	371	31			5
6	34	34	38	34	36	39	42	[(4)]	44	41	38	45	(425)*	(39)[11]			6
7	38	45	36	47	36	40	50	49	45	44	46	42	518	43			7
8	45	40	41	51	47	50	49	46	42	41	38	35	525	44			8
9	42	37	43	37	45	50	44	44	40	41	[		(423)*	(42)[10]			9
10																	10
11																	11
12																	12
13								]	37	20	22	12	(91)*	(23)[4]			13
14	37	39	34	39	45	38	39	45	36	38	57	44	491	41			14
15	40	38	42	36	42	37	48	45	36	39	49	43	495	41			15
16	40	40	42	46	42	35	39	38	29	40	46	39	476	40			16
17	39	40	34	46	45	[		]	54	45	43	54	(400)*	(44)[9]			17
18	46	44	40	42	40	55	39	40	37	39	40	41	503	42			18
19	38	42	44	46	39	30	37	41	50	40	42	42	504	42			19
20	40	43	35	40	46	45	36	35	48	48	38	49	503	42			20
21	47	46	49	48	49	50	52	51	49	57	52	51	601	50			21
22	59	50	49	51	58	52	57	58	49	54	57	58	652	54			22
23	57	58	54	54	58	60	59	53	57	52	59	47	668	56			23
24	51	51	53	53	52	53	56	57	52	50	47	50	625	52			24
25	52	54	48	37	45	50	57	50	47	49	46	45	580	48			25
26	40	47	44	48	44	42	49	51	40	41	31	46	523	44			26
27	45	35	35	42	34	42	43	42	46	42	37	40	483	40			27
28	43	41	47	39	43	49	50	60	65	56	53	59	605	50			28
29	54	61	56	44	55	55	62	59	61	57	56	55	675	56			29
30	47	48	49	52	53	51	57	55	60	59	55	48	634	53			30
31	45	51	59	58	51	56	62	56	59	56	63	55	671	56			31
Sum	1048	1046	1034	1065	1082	1109	1156	1143	1113	1106	1093	1070	13065	1088	45.3	(24 days)	
Mean	43.7	43.6	43.1	44.4	45.1	46.2	48.2	47.6	46.4	46.1	45.5	44.6	544.5	1236	44.1	(28 days)	
													45.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 174

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	61	60	51	58	53	59	55	53	54	63	53	50	670	56			1
2	57	59	63	60	51	57	63	63	65	61	56	57	712	59			2
3	67	65	66	69	61	66	65	70	64	61	56	61	741	62			3
4	54	57	61	56	67	60	68	66	66	58	56	61	730	61			4
5	56	55	48	54	52	63	61	54	58	58	54	59	672	56			5
6	51	49	55	58	53	66	60	65	65	59	58	59	698	58			6
7	63	56	63	53	58	54	58	57	54	62	64	58	700	58			7
8	58	61	63	64	68	68	67	71	57	68	66	64	775	65			8
9	63	61	62	67	63	63	63	61	64	55	62	51	735	61			9
10	59	54	59	59	50	58	57	46	60	57	56	62	677	56			10
11	58	55	54	59	59	57	54	63	66	61	70	65	721	60			11
12	63	69	60	63	60	65	67	72	73	65	62	66	785	65			12
13	60	67	69	71	65	69	75	79	69	69	62	63	818	68			13
14	65	66	67	63	67	72	66	63	62	62	64	69	786	66			14
15	64	53	61	62	60	55	66	66	60	62	65	59	732	61			15
16	65	60	54	60	58	65	68	64	60	59	65	61	739	62			16
17	65	58	56	62	66	63	66	61	70	63	67	63	760	63			17
18	61	62	56	67	56	52	64	57	53	61	57	55	703	59			18
19	61 C												(61)*	(61)^{1}			19
20								]	62	70	64	61	(257)*	(64)^{4}			20
21	56	69	72	71	78	73	73	69	69	65	69	66	830	69			21
22	69	65	72	67	70	80	79	69	81	73	82	74	881	73			22
23	69	61	66	67	59	69	71	59	67	64	67	64	783	65			23
24	56	66	63	74	71	70	69	77	68	65	60	84	823	69			24
25	69	76	72	82	75	80	73	73	74	65	69	69	877	73			25
26	68	62	64	69	72	61	63	67	65	76	67	66	800	67			26
27	59	63	60	63	54	72	59	58	60	63	67	60	738	62			27
28	66	62	60	61	69	61	67	62	60	63	58	74	763	64			28
29	59	60	61	64	67	62	67	64	60	64	60	68	756	63			29
30	58	66	69	61	65	71	64	69	61	58	72	58	772	64			30
31																	31
Sum	1719	1707	1717	1784	1747	1801	1828	1799	1785	1760	1764	1766	21177	1765	63.0	(28 days)	
Mean	61.4	61.0	61.3	63.7	62.4	64.3	65.3	64.3	63.7	62.9	63.0	63.1	756.4	1890	63.0	(30 days)	
													63.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 175

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1939

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	62	63	59	59	61	59	66	67	63	60	62	60	741	62			1
2	63	63	54	61	61	63	69	70	58	71	62	71	766	64			2
3	69	65	66	59	67	65	76	64	68	66	71	70	806	67			3
4	75	68	63	60	62	63	68	70	63	72	71	65	800	67			4
5	75	77	67	63	72	65	67	70	71	65	67	65	824	69			5
6	68	72	59	64	69	66	74	60	68	63	64	58	785	65			6
7	59	62	63	66	64	54	49	57	47	63	60	60	704	59			7
8	61	65	59	63	64	68	66	66	63	66	64	53	758	63			8
9	53	59	56	55	64	45	52	51	53	54	50	59	651	54			9
10	61	60	60	56	53	55	56	63	61	67	62	63	717	60			10
11	65	62	65	66	70	66	71	64	73	70	62	58	792	66			11
12	70	56	64	57	61	66	57	66	61	49	59	59	725	60			12
13	56	61	54	61	65	64	61	73	65	77	71	67	775	65			13
14	66	72	74	73	67	69	74	78	73	77	70	83	876	73			14
15	73	76	79	66	65	71	72	72	72	67	70	65	848	71			15
16	69	68	71	70	69	72	67	80	68	64	69	65	832	69			16
17	62	67	69	64	57	69	66	71	70	62	72	66	795	66			17
18	71	65	71	62	60	64	66	68	66	63	63	51	770	64			18
19	58	55	53	63	63	60	66	69	73	61	58	60	739	62			19
20	56	52	64	64	62	74	72	72	72	76	75	70	809	67			20
21	80	79	77	88	77	79	83	77	77	84	71	67	939	78			21
22	73	75	76	63	77	76	64	79	75	75	62	71	866	72			22
23	63	64	57	57	56	57	60	58	69	61	62	53	717	60			23
24	61	64	65	66	66	71	73	66	74	69	71	63	809	67			24
25	66	60	66	64	65	63	65	63	61	65	69	62	769	64			25
26	59	63	58	65	59	58	68	73	66	65	60	64	758	63			26
27	64	62	66	62	75	71	77	75	70	68	62	61	813	68			27
28	56	62	65	64	59	69	69	72	72	67	68	64	787	66			28
29	64	67	65	65	63	79	69	66	74	68	69	67	816	68			29
30	67	68	69	70	76	73	78	73	64	72	76	67	853	71			30
31	76	70	68	75	79	72	83	82	85	80	79	82	931	78			31
Sum	2021	2022	2002	1991	2028	2046	2104	2135	2095	2087	2051	1989	24571	2048	66.1	(31 days)	
Mean	65.2	65.2	64.6	64.2	65.4	66.0	67.9	68.9	67.6	67.3	66.2	64.2	792.7				
													66.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 176

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	79	77	77	75	96	76	82	90	83	86	90	76	987	82			1
2	91	83	84	85	85	81	79	75	81	76	81	85	986	82			2
3	76	87	80	84	84	84	79	82	81	77	67	69	950	79			3
4	74	72	74	73	64	71	74	65	82	68	69	79	865	72			4
5	76	69	68	73	69	68	72	73	75	73	73	71	860	72			5
6	77	71	73	73	78	81	81	80	86	79	81	62	922	77			6
7	64	70	64	66	74	78	71	69	76	75	67	72	846	70			7
8	69	68	71	66	74	74	72	78	85	73	74	77	881	73			8
9	72	63	65	66	67	70	73	72	86	74	77	71	856	71			9
10	71	77	72	72	72	63	70	69	68	73	67	71	845	70			10
11	69	63	78	69	64	65	69	58	66	71	69	68	809	67			11
12	69	73	69	74	66	68	67	74	73	71	77	74	855	71			12
13	70	70	62	71	78	68	68	73	76	78	63	64	841	70			13
14	69	58	67	64	65	62	74	67	69	76	66	60	787	66			14
15	72	71	71	70	77	76	82	89	78	80	80	84	930	78			15
16	76	77	72	81	74	83	82	81	84	84	76	78	948	79			16
17	82	82	85	87	79	81	79	80	79	72	[$^{(13)}$		(806)*	(81)	10		17
18																	18
19				]	81	74	77	78	75	76	85	79	(625)*	(78)	8		19
20	82	84	91	76	87	87	85	81	84	85	85	102	1029	86			20
21	81	82	87	91	87	83	91	80	85	84	84	79	1014	84			21
22	84	82	87	84	83	80	80	81	86	90	75	78	990	82			22
23	72	72	68	72	72	75	72	74	78	79	77	72	883	74			23
24	75	73	75	73	72	80	75	78	76	66	68	63	874	73			24
25	69	72	81	76	79	73	75	80	77	88	78	86	934	78			25
26	77	85	90	87	87	88	96	90	87	94	85	94	1060	88			26
27	87	86	80	88	87	84	86	88	87	78	85	78	1014	84			27
28	79	82	85	80	78	85	83	78	86	78	79	87	980	82			28
29	83	83	75	73	76	80	75	85	82	79	85	83	959	80			29
30	81	81	85	78	83	85	91	82	76	77	71	77	967	81			30
31	83	69	79	75	73	70	71	72	77	70	81	69	889	74			31
Sum	2127	2100	2130	2115	2141	2138	2175	2164	2230	2182	2130	2129	25761	2145	76.6	(28days)	
Mean	76.0	75.0	76.1	75.5	76.5	76.4	77.7	77.3	79.6	77.9	76.1	76.0	920.1	2304	76.8	(30days)	
													76.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 177

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	72	72	73	73	69	78	66	69	66	68	74	68	848	71			1
2	65	74	70	78	84	78	76	89	89	82	83	78	946	79			2
3	80	83	75	63	78	72	74	76	77	73	66	71	888	74			3
4	68	70	66	75	68	67	75	70	74	71	68	76	848	71			4
5	76	69	74	64	74	70	73	64	67	67	65	61	824	69			5
6	57	69	73	66	66	74	69	65	62	68	59	57	785	65			6
7	57	55	79	67	76	77	81	83	78	77	80	71	881	73			7
8	76	72	67	71	70	78	69	73	73	68	70	72	859	72			8
9	74	73	74	69	73	76	70	66	73	69	71	65	853	71			9
10	67	67	72	64	67	60	64	64	65	71	63	64	788	66			10
11	68	65	71	74	71	73	77	70	73	78	71	64	855	71			11
12	67	68	68	58	66	59	61	67	60	65	59	62	760	63			12
13	66	67	71	65	63	70	74	74	81	68	75	79	853	71			13
14	69	77	68	73	74	81	87	88	80	86	80	83	946	79			14
15·	77	81	74	77	83	80	78	75	74	78	71	75	923	77			15
16	71	77	77	79	73	73	69	65	72	67	72	77	872	73			16
17	73	66	67	72	64	74	69	71	71	62	67	76	832	69			17
18	63	63	69	66	76	69	71	69	69	72	68	70	825	69			18
19	58	75	71	68	75	71	79	70	74	74	78	78	871	73			19
20	75	87	82	73	83	84	79	97	81	90	73	77	983	82			20
21	72	78	80	83	73	83	80	76	78	75	74	68	920	77			21
22	76	79	76	80	77	74	82	79	75	73	79	71	921	77			22
23	75	81	78	81	80	79	75	80	70	68	71	64	902	75			23
24	74	72	71	69	70	65	82	82	79	78	68	62	872	73			24
25	77	65	72	75	86	83	82	80	82	75	78	76	931	78			25
26	78	82	78	81	76	73	80	74	71	72	77	67	909	76			26
27	68	73	69	74	74	65	67	74	74	70	66	72	846	70			27
28	61	69	65	66	72	68	73	83	71	73	65	67	833	69			28
29	71	72	74	74	72	78	68	69	73	70	69	67	857	71			29
30																	30
31																	31
Sum	2031	2101	2104	2078	2133	2132	2150	2162	2132	2108	2060	2040	25231	2104	72.6	(29days)	
Mean	70.0	72.4	72.6	71.7	73.6	73.5	74.1	74.6	73.5	72.7	71.0	70.3	869.7				
													72.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 178

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	64	61	63	67	70	72	67	62	66	66	69	68		795	66			1
2	61	68	66	64	66	65	63	64	65	68	57	62		769	64			2
3	58	60	59	60	59	67	64	68	66	65	63	60		749	62			3
4	64	62	68	78	69	69	74	76	74	66	69	77		846	70			4
5	72	71	71	71	75	72	84	81	79	82	80	82		920	77			5
6	83	74	82	80	87	92	89	85	81	75	83	78		989	82			6
7	87	72	76	75	76	81	78	83	73	77	74	76		928	77			7
8	72	74	78	67	77	83	81	80	81	77	82	80		932	78			8
9	74	77	73	82	79	86	79	82	81	80	77	80		950	79			9
10	70	74	70	82	83	83	91	84	79	76	73	74		939	78			10
11	69	77	66	79	71	81	80	77	80	67	73	78		898	75			11
12	71	67	66	76	56	68	66	64	63	74	70	69		810	68			12
13	60	68	61	72	63	71	80	66	76	66	71	68		822	68			13
14	77	68	65	66	68	66	72	68	68	65	63	73		819	68			14
15	69	69	73	75	82	81	94	84	88	86	77	72		950	79			15
16	76	70	72	70	75	77	73	84	76	76	72	81		902	75			16
17	71	70	79	76	67	70	73	78	73	73	70	62		862	72			17
18	71	75	66	67	67	71	78	81	78	67	72	75		868	72			18
19	68	69	75	67	65	69	79	75	79	82	74	80		882	74			19
20	66	74	81	72	70	79	79	70	84	76	70	76		897	75			20
21	72	74	81	85	82	77	88	83	79	83	74	71		949	79			21
22	68	72	77	79	85	82	78	80	82	78	81	81		943	79			22
23	83	90	88	83	87	82	86	76	88	76	84	86		1009	84			23
24	80	79	89	78	74	58	57	52	46	58	56	57		784	65			24
25	59	63	66	79	64	75	69	77	63	69	75	72		831	69			25
26	75	70	63	63	62	65	70	55	58	60	56	63		760	63			26
27	68	61	55	58	52	55	54	49	56	54	51	61		674	56			27
28	57	57	59	56	52	54	52	63	60	61	58	56		685	57			28
29	65	60	59	60	50	59	59	56	45	44	45	44		646	54			29
30	48	50	43	41	38	40	34	37	46	46	43	44		510	42			30
31	52	62	60	47	42	44	47	45	47	49	41	37		573	48			31
Sum	2130	2138	2150	2175	2113	2194	2238	2185	2180	2142	2103	2143		25891	2155	69.5	(31 days)	
Mean	68.7	69.0	69.4	70.2	68.2	70.8	72.2	70.5	70.3	69.1	67.8	69.1		835.3				
														69.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 179

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	23	31	30	37	39	43	48	47	48	37	42	36		461	38			1
2	40	34	41	44	44	54	45	47	42	51	47	52		541	45			2
3	45	47	45	46	45	42	41	31	42	40	29	26		479	40			3
4	40	36	43	51	46	53	51	50	38	40	44	46		538	45			4
5	47	60	57	59	61	61	64	61	54	53	58	53		688	57			5
6	64	64	60	61	63	64	61	61	67	49	50	58		722	60			6
7	56	58	53	58	62	57	58	67	56	52	51	49		677	56			7
8	52	56	50	50	50	59	60	62	61	55	55	64		674	56			8
9	60	53	64	59	60	73	72	80	74	74	63	70		802	67			9
10	67	69	65	62	67	68	73	72	69	63	70	65		810	68			10
11	69	64	63	60	59	68	66	73	65	64	63	63		777	65			11
12	61	60	59	61	65	63	76	71	73	71	71	75		806	67			12
13	71	70	75	83	83	80	82	91	91	76	83	77		962	80			13
14	81	90	84	82	82	87	84	88	81	87	74	80		1000	83			14
15	76	73	81	74	72	71	69	80	73	68	65	63		865	72			15
16	67	55	70	68	63	58	65	73	64	64	64	65		776	65			16
17	62	69	58	65	65	60	65	64	64	64	57	64		757	63			17
18	65	58	56	60	60	[								(299)*	(60)	5		18
19										64	67	59		(190)*	(63)	3		19
20	66	62	62	69	70	68	64	73	73	64	65	68		804	67			20
21	65	69	69	65	61	74	61	69	68	66	62	59		788	66			21
22	67	70	71	67	66	66	76	68	66	69	63	59		808	67			22
23	59	61	67	65	69	67	63	65	67	65	60	62		770	64			23
24	64	65	62	73	62	70	73	69	67	67	68	60		800	67			24
25	64	66	64	70	62	64	59	53	61	56	56	55		730	61			25
26	62	56	60	57	62	56	58	60	68	61	60	65		725	60			26
27	65	67	59	73	64	72	74	79	70	71	64	70		828	69			27
28	63	69	67	59	62	68	73	69	69	66	63	66		794	66			28
29	68	68	54	60	56	61	50	63	56	55	62	64		717	60			29
30	57	55	55	59	56	61	59	59	61	56	55	59		692	58			30
31																		31
Sum	1681	1697	1688	1737	1716	1788	1790	1845	1788	1704	1664	1693		20791	1732	61.9	(28 days)	
Mean	60.0	60.6	60.3	62.0	61.3	63.9	63.9	65.9	63.9	60.9	59.4	60.5		742.6	1855	61.8	(30 days)	
														61.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 180

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	56	50	57	53	53	56	60	64	62	61	67	69		708	59			1
2	63	65	63	66	71	66	72	70	68	67	68	65		804	67			2
3	63	67	76	68	71	73	78	81	76	74	75	74		876	73			3
4	73	71	62	59	69	67	68	76	68	63	69	70		815	68			4
5	65	65	59	61	65	66	56	67	69	58	61	63		755	63			5
6	58	58	57	56	49	75	75 [		]	71	71	72		(642)	(64)[10]			6
7	71	77	73	66	64	76	64	85	74	88	73	82		893	74			7
8	69	75	74	75	47	37	56	48	47	51	45	45		669	56			8
9	44	52	45	55	53	58	64	74	74	66	61	61		707	59			9
10	69	71	66	63	72	69	75	69	77	76	73	66		846	70			10
11	66	70	72	72	77	65	63	72	71	72	69	72		841	70			11
12	79	69	70	75	71	71	74	64	70	64	67	63		837	70			12
13	68	64	55	64	59	66	61	64	64	58	60	60		743	62			13
14	64	52	60	61	55	60	57	65	57	61	62	62		716	60			14
15	63	55	63	52	64	52	65	61	64	62	56	53		710	59			15
16	60	67	71	60	65	60	60	57	66	63	71	61		761	63			16
17	65	53	65	70	70	60	55	58	60	60	54	51		721	60			17
18	54	59	61	56	63	64	70	63	58	62	56	60		728	61			18
19	52	52	58	55	60	60	64	70	56	68	57	58		710	59			19
20	60	54	61	61	62	55	54	56	55	53	54	56		681	57			20
21	54	59	52	53	53	50	52	57	63	54	55	56		658	55			21
22	52	54	52	55	57	62	60	73	54	57	52	52		680	57			22
23	51	40	50	41	45	43	46	46	40	49	41	40		532	44			23
24	43	43	47	52	50	55	39	40	40	49	41	44		543	45			24
25	46	55	47	48	49	46	47	61	52	50	46	48		595	50			25
26	45	51	46	47	39	46	52	58	53	51	46	49		583	49			26
27	45	52	47	54	51	51	58	56	58	49	50	50		621	52			27
28	61	50	58	56	65	65	66	64	66	61	59	53		724	60			28
29	57	54	57	57	55	58	58	60	58	56	58	56		684	57			29
30	54	59	61	55	59	58	49	57	61	52	57	54		676	56			30
31	43	54	55	53	57	54	63	54	61	56	58	55		663	55			31
Sum	1755	1759	1783	1765	1791	1769	1806	1890	1842	1811	1761	1748		21480	1790	59.7	(30 days)	
Mean	58.5	58.6	59.4	58.8	59.7	59.0	60.2	63.0	61.4	60.4	58.7	58.3		716.0	1854	59.8	(31 days)	
														59.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 181

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	57	50	47	51	51	54	53	55	54	51	59	52		634	53			1
2	58	58	52	44	54	57	56	54	49	47	49	51		629	52			2
3	60	54	56	51	52	60	51	56	57	52	62	54		665	55			3
4	50	62	51	54	54	51	55	61	57	63	49	55		662	55			4
5	54	55	52	61	57	53	63	56	57	58	54	60		680	57			5
6	43	53	52	54	56	55	60	53	54	59	52	58		649	54			6
7	60	55	54	44	56	59	53	56	54	56	55	52		654	54			7
8	50	53	63	49	51	48	52	49	58	52	54	44		623	52			8
9	50	47	50	49	50	52	52	48	50	55	56	54		613	51			9
10	54	48	49	46	57	57	48	56	53	60	55	54		637	53			10
11	48	48	51	49	52	55	51	52	46	60	55	49		616	51			11
12	43	49	46	55	53	50	49	51	53	54	55	52		610	51			12
13	48	56	53	48	53	50	49	54	59	60	58	48		636	53			13
14	39	40	49	45	39	54	50	40	39	45	49	47		536	45			14
15	41	46	45	41	41	37	39	47	43	49	36	38		503	42			15
16	49	43	49	41	49	30	54	42	44	46	41	41		529	44			16
17	41	51	37	39	47	52	51	49	44	52	43	45		551	46			17
18	47	43	43	40	44	54	50	43	47	50	48	51		560	47			18
19	41	38	43	45	43	44	49	50	52	44	58	41		548	46			19
20	39	52	51	49	58	50	53	58	58	58	52	62		640	53			20
21	59	60	63	54	58	60	57	56	64	54	52	57		694	58			21
22	51	56	60	51	58	59	47	50	52	49	49	56		638	53			22
23	47	49	40	50	48	54	43	51	45	44	46	44		561	47			23
24	42	43	46	45	[			]	50	47	56	47		(376)	(47)[8]			24
25	45	[												(45)	(45)[1]			25
26				]	44	37	47	52	49	45	44	42		(360)	(45)[8]			26
27	42	47	44	41	40	48	38	39	50	39	32	45		505	42			27
28	34	46	38	35	43	42	41	39	42	46	46	37		489	41			28
29	42	48	37	36	48	46	51	54	53	51	51	56		573	48			29
30	51	50	53	51	60	51	56	44	56	51	47	58		628	52			30
31																		31
Sum	1298	1357	1328	1273	1372	1382	1371	1363	1390	1405	1363	1361		16263	1355	50.2	(27 days)	
Mean	48.1	50.3	49.2	47.1	50.8	51.2	50.8	50.5	51.5	52.0	50.5	50.4		6024	1492	49.7	(30 days)	
														50.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 182

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	47	51	48	53	49	52	49	67	57	50	57	41	621	52		1
2	47	52	56	46	43	54	56	56	51	48	56	55	620	52		2
3	55	43	51	48	51	48	52	53	53	47	52	48	601	50		3
4	52	50	45	47	42	54	48	55	47	50	54	52	596	50		4
5	55	50	43	47	50	50	47	49	47	59	48	47	592	49		5
6	49	44	43	42	45	42	46	41	52	57	52	49	562	47		6
7	46	47	54	41	42	35	54	41	46	40	53	47	546	46		7
8	50	49	40	49	44	46	51	46	49	43	43	37	547	46		8
9	50	53	44	53	49	52	49	47	50	45	42	49	583	49		9
10	42	41	35	39	47	46	44	53	42	46	43	39	517	43		10
11	41	46	37	41	43	42	[			]	46	36	(332)	(42)	8	11
12	46	43	46	39	46	41	52	44	50	48	47	48	550	46		12
13	47	42	42	44	48	46	47	53	52	44	38	35	538	45		13
14	43	44	45	57	42	39	46	46	47	51	52	46	558	46		14
15	42	50	54	47	44	46	47	48	45	46	40	50	559	47		15
16	48	41	46	42	52	51	42	44	47	51	51	[	(515)	(47)	"	16
17	]	53	44	42	46	51	47	50	52	53	42	47	(527)	(48)	"	17
18	52	46	44	43	50	58	49	48	48	47	46	46	577	48		18
19	47	46	41	38	46	46	51	53	58	53	49	48	576	48		19
20	48	49	41	42	48	53	50	52	56	44	38	42	563	47		20
21	42	44	44	48	45	44	50	47	46	51	49	39	549	46		21
22	48	41	45	43	50	45	48	49	45	47	48	43	552	46		22
23	44	45	38	44	44	42	46	52	49	45	47	51	547	46		23
24	45	35	38	32	38	44	44	49	46	41	48	45	505	42		24
25	48	48	42	43	38	44	50	44	43	41	48	41	530	44		25
26	39	48	41	37	43	36	46	45	44	44	45	43	511	43		26
27	48	40	47	38	40	43	46	46	44	54	50	49	545	45		27
28	42	50	39	37	47	41	51	49	45	42	38	45	526	44		28
29	41	37	46	43	42	43	46	48	45	47	50	47	535	45		29
30	39	37	43	32	46	43	46	42	49	41	39	36	493	41		30
31	37	32	35	40	41	42	43	39	47	50	48	34	488	41		31
Sum	1291	1257	1230	1212	1260	1275	1354	1362	1353	1321	1320	1252	15487	1294	46.2 (28 days)	
Mean	46.1	44.9	43.9	43.3	45.0	45.5	48.4	48.6	48.3	47.2	47.1	44.7	553.3	1431	46.2 (31 days)	
													46.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 183

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	41	37	41	43	43	44	35	48	41	41	46	43	503	42		1
2	39	41	43	42	33	34	47	38	43	43	41	38	482	40		2
3	32	34	40	35	35	46	38	50	36	31	33	36	446	37		3
4	34	29	36	34	41	48	36	45	45	41	33	38	460	38		4
5	33	32	46	40	27	36	39	44	41	41	36	36	451	38		5
6	41	39	39	32	40	43	47	46	43	42	47	41	500	42		6
7	37	45	42	47	50	49	52	43	43	50	47	48	553	46		7
8	56	48	43	48	53	53	42	47	49	50	52	54	595	50		8
9	43	39	51	56	52	38	44	45	39	40	49	46	542	45		9
10	40	37	38	49	39	40	35	38	50	47	45	49	507	42		10
11	43	46	41	49	45	35	47	46	50	42	44	46	534	44		11
12	49	42	38	40	38	41	40	53	41	42	45	40	509	42		12
13	44	46	47	46	39	41	48	34	45	40	39	46	515	43		13
14	45	44	48	42	44	39	46	40	46	49	45	46	534	44		14
15	50	49	45	43	52	47	47		54	36	48	46	(517)	(47)	"	15
16	42	50	41	43	45	40	47	46	43	49	48	48	542	45		16
17	46	40	48	42	46	42	43	48	45	40	46	40	526	44		17
18	38	40	36	44	37	39	46	44	45	37	48	47	501	42		18
19	37	33	40	42	41	39	43	39	52	49	41	41	497	41		19
20	48	42	47	54	48	50	52	54	54	51	49	45	594	50		20
21	50	47	45	44	52	41	48	51	58	51	45	56	588	49		21
22	55	50	47	46	47	43	50	43	54	57	55	51	598	50		22
23	49	44	50	54	44	49	52	48	50	51	54	55	600	50		23
24	60	55	50	57	55	57	57	50	55	52	56	51	655	55		24
25	56	57	59	49	55	55	51	49	47	49	50	47	624	52		25
26	55	40	39	46	51	54	47	50	47	45	50	46	570	48		26
27	40	41	37	38	42	44	42	52	58	48	45	44	531	44		27
28	45	40	40	37	41	45	46	49	43	47	43	46	522	44		28
29	46	47	31	44	36	44	48	40	38	44	48	39	505	42		29
30	37	44	36	33	36	37	42	43	40	46	40	43	477	40		30
31	35	44	31	45	41	42	43	41	53	39	43	39	496	41		31
Sum	1316	1273	1270	1321	1296	1308	1353	1364	1394	1354	1363	1345	15957	1330	44.3 (30 days)	
Mean	43.9	42.4	42.3	44.0	43.2	43.6	45.1	45.8	46.5	45.1	45.4	44.8	531.8	1377	44.4 (31 days)	
													44.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 184

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	42	49	38	47	44	47	40	52	49	44	39	47	538	45		1
2	51	40	44	43	55	47	47	44	43	43	47	40	544	45		2
3	45	42	42	39	40	48	45	46	52	57	48	43	547	46		3
4	43	46	47	43	46	46	45	52	43	46	48	45	550	46		4
5	45	53	41	40	45	49	48	44	46	41	50	38	540	45		5
6	49	49	48	46	48	50	40	48	44	46	48	41	557	46		6
7	41	51	44	44	47	44	51	47	45	42	43	44	543	45		7
8	44	50	42	45	43	47	48	46	50	47	47	42	551	46		8
9	44	45	48	47	44	48	39	51	49	44	46	56	561	47		9
10	50	51	48	42	49	51	52	53	49	51	52	53	601	50		10
11	49	54	48	47	46	53	59	62	60	54	58	59	649	54		11
12	49	58	54	44	50	58	62	54	65	63	52	55	664	55		12
13	52	48	47	46	57	55	48	50	57	55	58	48	621	52		13
14	50	48	52	50	51	50	53	52	49	60	50	49	614	51		14
15	51	47	50	42	51	44	43	54	46	45	54	55	582	48		15
16	51	47	51	46	47	56	58	51	56	54	45	47	609	51		16
17	44	46	51	50	55	51	52	50	50	53	49	51	602	50		17
18	47	51	48	52	58	44	41	61	51	50	37	51	591	49		18
19	42	48	45	44	46	45	44	48	48	42	47	50	549	46		19
20	53	47	44	45	48	44	52	52	45	42	50	44	566	47		20
21	52	49	56	48	52	45	48	47	50	42	40	42	571	48		21
22	46	35	43	51	49	48	53	53	50	46	48	47	569	47		22
23	50	44	40	50	53	53	51	54	43	50	49	49	586	49		23
24	48	38	40	42	39	51	40	48	54	55	40	45	540	45		24
25	44	46	39	41	43	44	46	52	50	53	43	56	557	46		25
26	52	54	59	60	59	48	55	45	46	49	43	51	621	52		26
27	53	43	45	51	49	41	43	46	41	44	48	40	544	45		27
28	42	51	53	49	52	48	48	51	51	50	42	53	590	49		28
29	45	48	47	42	44	48	48	40	42	56	45	51	556	46		29
30	45	48	50	51	47	58	48	46	51	56	51	55	606	50		30
31																31
Sum	1419	1426	1404	1387	1457	1461	1447	1499	1475	1480	1417	1447	17319	1441	48.0 (30 days)	
Mean	47.3	47.5	46.8	46.2	48.6	48.7	48.2	50.0	49.2	49.3	47.2	48.2	577.2			
													48.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 185

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	48	58	40	49	56	48	50	48	45	38	40	45	565	47		1
2	44	49	49	56	44	48	56	51	56	48	43	52	596	50		2
3	37	51	48	44	46	47	47	44	56	59	53	48	580	48		3
4	51	47	48	51	39	45	51	47	46	51	45	47	568	47		4
5	48	45	51	50	45	45	50	49	41	44	47	47	562	47		5
6	44	47	43	36	41	45	36	48	46	40	43	45	514	43		6
7	46	44	39	40	44	43	43	38	42	38	41	44	502	42		7
8	40	42	47	50	48	54	63	63	59	56	51	53	626	52		8
9	54	58	56	58	52	63	58	56	64	55	49	47	670	56		9
10	57	51	62	50	58	57	53	53	58	59	56	52	666	56		10
11	50	47	52	46	49	52	59	54	57	55	52	51	624	52		11
12	55	50	50	50	48	56	56	47	48	57	55	55	627	52		12
13	56	51	48	51	41	49	58	45	61	48	51	52	611	51		13
14	45	48	51	66	42	54	60	53	53	54	51	53	620	52		14
15	51	53	56	58	52	51	57	61	54	62	60	64	679	57		15
16	60	63	54	59	60	70	70	54	61	61	62	58	732	61		16
17	55	59	57	61	59	59	52	62	58	69	66	60	717	60		17
18	52	64	67	59	63	68	62	67	65	52	65	58	742	62		18
19	61	58	59	63	70	60	70	67	64	53			(625)	(62)	10	19
20	62	50	54	58	58	63	62	64	55	53	62	60	701	58		20
21	59	53	53	59									(224)	(56)	4	21
22																22
23					47	55	51	49	49	55	43	54	(403)	(50)	8	23
24	48	48	48	45	50	50	49	55	58	56	64	55	626	52		24
25	49	51	45	50	51	49	43				38	45	(421)	(47)	9	25
26	44	37	45	41	36	50	43	50	53	48	42	45	534	44		26
27	47	50	55	51	51	56	51	58	46	47	54	54	620	52		27
28	46	49	48	50	55	58	53	57	59	56	55	52	638	53		28
29	50	61	59	59	60	53	60	58	53	56	51	57	677	56		29
30	55	52	47	46	54	50	54	50	57	57	49	57	628	52		30
31	64	49	52	56	61	60	65	59	59	58	62	59	704	59		31
Sum	1309	1323	1326	1330	1312	1394	1418	1391	1410	1377	1369	1370	16329	1361	52.3 (26 days)	
Mean	50.3	50.9	51.0	51.2	50.5	53.6	54.5	53.5	54.2	53.0	52.7	52.7	628.1	1576	52.5 (30 days)	
													52.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 186

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	47	44	46	47	50	50	59	55	52	51	50	53	604	50		1
2	48	57	45	48	58	55	58	63	58	61	62	60	673	56		2
3	52	50	59	58	49	55	62	67	54	52	57	57	672	56		3
4	62	58	56	52	52	53	46	44	55	58	47	59	642	54		4
5	54	57	45	48	50	57	48	61	62	51	56	48	637	53		5
6	59	62	58	58	65	60	71	73	73	63	65	65	772	64		6
7	67	69	72	64	67	70	67	76	67	72	72	65	828	69		7
8	70	70	63	73	75	76	71	61	69	70	76	65	839	70		8
9	63	65	68	58	60	62	65	59	62	55	58	58	733	61		9
10	62	63	66	65	58	58	60	58	54	63	62	50	719	60		10
11	50	53	58	61	54	54	56	56	50	58	57	60	666	56		11
12	51	59	54	53	51	57	58	62	61	49	49	56	650	54		12
13	49	51	48	52	56	57	62	62	55	56	53	53	654	54		13
14	48	46	50	53	54	47	50	51	62	49	56	56	622	52		14
15	53	47	53	60	52	49	56	59	60	60	61	65	665	55		15
16	55	64	49	65	74	67	59	52	55	64	52	62	718	60		16
17	54	62	54	60	61	59	58	51	54	57	50	61	681	57		17
18	43	51	49	53	49	53	62	53	55	61	45	46	620	52		18
19	45	40	50	42	51	53	52	52	44	44	43	51	567	47		19
20	55	49	54	54	51	49	47	54	51	49	46	50	609	51		20
21	47	51	55	49	56	53	46	46	56	47	49	42	597	50		21
22	48	51	45	50	45	50	50	55	46	48	49	51	588	49		22
23	43	50	35	39	40	47	47	47	49	56	53	40	546	46		23
24	54	48	51	57	58	54	46	59	63	60	61	55	666	56		24
25	69	61	59	52	56	60	59	62	58	66	62	59	723	60		25
26	53	54	58	61	60	66	57	59	60	63	55	57	703	59		26
27	56	49	55	57	58	54	64	67	70	61	61	66	718	60		27
28	69	69	63	74	74	76	79	70	70	76	71	66	857	71		28
29	61	75	66	69	61	71	69	64	65	60	61	55	777	65		29
30	60	60	64	69	65	55	60	72	60	62	67	59	753	63		30
31																31
Sum	1647	1685	1648	1691	1710	1727	1744	1759	1750	1742	1706	1690	20499	1710	57.0 (30 days)	
Mean	54.9	56.2	54.9	56.4	57.0	57.6	58.1	58.6	58.3	58.1	56.9	56.3	56.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 187

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1940

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	59	56	56	56	48	65	60	64	54	64	61	66	709	59		1
2	68	65	62	66	62	67	67	71	67	66	68	63	792	66		2
3	74	69	77	73	72	72	88	78	80	73	74	79	909	76		3
4	66	69	65	69	68	73	75	66	64	64	66	70	815	68		4
5	68	72	68	60	54	63	72	74	79	75	76	68	829	69		5
6	64	60	66	65	74	64	71	66	65	65	66	58	784	65		6
7	51	56	60	61	64	67	67	63	74	59	73	69	764	64		7
8	74	59	67	72	69	75	74	77	73	76	74	73	863	72		8
9	74	77	75	73	69	74	77	75	69	70	63	48	844	70		9
10	60	56	61	61	59	58	63	57	65	57	50	55	702	58		10
11	49	54	52	59	62	60	58	55	55	54	62	61	681	57		11
12	47	55	47	52	57	55	58	59	53	52	54	43	632	53		12
13	46	50	45	52	41	48	59	54	63	65	51	50	624	52		13
14	51	57	63	61	58	55	69	64	66	61	68	59	732	61		14
15	51	57	57	53	53	60	59	61	56	57	51	61	676	56		15
16	47	55	51	56	54	49	53	59	57	55	56	51	643	54		16
17	48	54	61	61	68	64	65	71	57	68	57	58	732	61		17
18	57	56	59	66	68	55	66	65	63	60	63	66	744	62		18
19	66	64	65	65	61	59	58	62	58	64	60	57	739	62		19
20	60	61	57	56	66	55	62	52	60	63	70	60	722	60		20
21	55	66	62	67	64	67	57	69	66	65	64	59	761	63		21
22	64	59	58	58	62	59	64	68	65	57	67	70	751	63		22
23	62	66	59	63	64	58	72	66	65	55	62	63	755	63		23
24	58	67	57	58	57	67	56	67	63	63	57	53	723	60		24
25	58	54	58	58	61	49	49	58	55	49	57	58	664	55		25
26	56	56	62	50	57	60	47	65	61	54	53	56	677	56		26
27	57	41	43	50	42	59	43	54	57	54	46	42	588	49		27
28	50	51	47	52	51	46	52	47	46	50	50	59	601	50		28
29	52	59	54	53	58	65	56	67	70	62	67	70	733	61		29
30	64	61	62	60	59	57	54	60	65	57	55	61	715	60		30
31	52	62	57	57	55	58	59	54	53	48	57	61	673	56		31
Sum	1808	1844	1833	1863	1857	1883	1930	1968	1944	1882	1898	1867	22577	1881	60.7 (31 days)	
Mean	58.3	59.5	59.1	60.1	59.9	60.7	62.3	63.5	62.7	60.7	61.2	60.2	728.2			
													60.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 188

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	46	64	60	66	59	56	59	56	50	57	57	57		687	57			1
2	58	58	61	64	53	54	53	56	51	62	64	61		695	58			2
3	62	61	61	60	70	59	63	63	64	64	67	65		759	63			3
4	68	68	72	67	65	72	70	75	79	70	77	70		853	71			4
5	76	58	65	58	65	72	67	77	80	75	69	70		832	69			5
6	64	69	72	59	61	62	61	70	72					(590)	(66)			6
7	55	50	49	54	67	69	64	76	64	68	65	70		751	63			7
8	57	61	69	69	66	66	62	66	70	71	70	70		797	66			8
9	71	60	71	57	70	70	73	76	65	68	81	65		827	69			9
10	68	67	68	60	70	77	79	73	67	69	75	72		845	70			10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19																		19
20																		20
21																		21
22																		22
23																		23
24																		24
25																		25
26																		26
27																		27
28																		28
29																		29
30																		30
31																		31
Sum	561	547	[illegible]	555	585	595	590	618	590	604	625	600		7046	586	65.1	(9 days)	
Mean	62.3	60.8	64.0	61.7	65.0	66.1	65.6	68.7	65.6	67.1	69.4	66.7		7830	652	65.2	(10 days)	
														65.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 189

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1																		1
2																		2
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10
11																		11
12																		12
13																		13
14																		14
15	63	69	71	67	68	74	74	82	78	66	77	70		859	72			15
16	66	75	79	68	74	68	70	78	65	78	75	79		875	73			16
17	72	74	73	77	69	72	78	71	77	73	80	75		891	74			17
18	73	79	82	75	75	65	79	80	69	78	71	72		898	75			18
19	65	73	68	66	72	69	69	72	82	69	73	73		851	71			19
20	74	75	68	75	74	74	73	67	73	74	61	71		859	72			20
21	68	80	68	81	73	70	73	79	76	78	70	71		887	74			21
22	83	73	65	76	76	71	72	73	77	72	79	80		897	75			22
23	83	75	80	79	77	78	72	79	77	77	76	72		925	77			23
24	71	75	72	73	66	71	67	69	74	65	65	59		827	69			24
25	69	71	72	51	66	68	76	77	68	72	66	66		828	69			25
26	67	66	74	70	75	70	66	81	72	62	62	68		833	69			26
27	79	75	71	70	73	73	70	75	78	82	79	80		905	75			27
28	76	77	72	79	79	83	81	89	88	88	80	92		984	82			28
29																		29
30																		30
31																		31
Sum	1009	1037	1015	1013	1017	1006	1020	1072	1054	1034	1014	1028		12319	1027	73.4	(14 days)	
Mean	72.1	74.1	72.5	72.4	72.6	71.9	72.9	76.6	75.3	73.9	72.4	73.4		880.1				
														73.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 190

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	71	76	78	69	57	41	53	52	54	52	45	47		695	58			1
2	55	40	53	46	52	46	46	47	45	59	51	46		586	49			2
3	50	41	54	53	37	50	57	53	48	55	51	53		602	50			3
4	49	57	60	69	53	61	63	59	67	73	80	68		759	63			4
5	71	61	70	68	70	65	74	60	67	69	68	69		812	68			5
6	61	66	72	71	66	73	64	70	68	72	67	73		823	69			6
7	63	69	72	63	66	69	70	63	74	65	67	64		805	67			7
8	70	63	62	64	63	69	66	75	75	69	75	66		817	68			8
9	76	68	75	67	66	69	77	71	74	76	69	74		862	72			9
10	71	69	72	67	66	69	60	75	81	71	66	71		838	70			10
11	74	67	65	61	73	69	72	77	75	71	73	66		843	70			11
12	58	60	64	75	73	67	77	83	77	81	74	74		863	72			12
13	78	72	66	75	70	76	83	85	77	75	81	81		919	77			13
14	78	90	72	80	75	72	79	82	75	78	71	66		918	76			14
15	70	84	77	66	71	67	77	73	78	64	67	63		857	71			15
16	66	73	67	61	69	71	74	66	68	64	68	55		802	67			16
17	68	67	74	67	74	78	80	81	83	85	75	78		910	76			17
18	89	77	78	78	72	78	75	74	83	76	76	66		922	77			18
19	67	61	60	63	67	65	69	70	70	62	64	69		787	66			19
20	68	63	58	60	59	67	65	67	66	62	59	62		756	63			20
21	64	62	59	63	69	62	71	74	61	65	65	72		787	66			21
22	64	62	60	60	56	66	70	64	66	70	64	59		761	63			22
23	53	57	66	59	69	64	63	68	66	62	67	65		759	63			23
24	63	66	62	70	60	62	68	71	74	64	61	69		790	66			24
25	74	68	67	66	75	74	71	80	67	69	68	64		843	70			25
26	67	71	67	70	70	71	76	67	67	66	64	63		819	68			26
27	57	70	67	67	74	77	77	71	66	67	68	66		827	69			27
28	67	71	71	69	80	76	68	70	68	77	71	74		862	72			28
29	71	80	74	86	84	75	84	79	84	81	80	77		955	80			29
30	84	81	83	73	71	82	92	73	68	62	50	54		873	73			30
31	63	68	59	57	52	57	52	52	52	57	49	57		675	56			31
Sum	2080	2080	2084	2063	2059	2088	2173	2152	2144	2119	2054	2031		25127	2095	67.6	(31 days)	
Mean	67.1	67.1	67.2	66.5	66.4	67.4	70.1	69.4	69.2	68.4	66.3	65.5		8106				
														67.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 191

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	54	55	54	59	56	51	54	54	48	64	56	53		658	55			1
2	55	55	63	60	69	61	58	59	63	62	59	53		717	60			2
3	53	58	60	53	53	57	52	52	53	53	52	45		641	53			3
4	50	53	59	62	50	60	53	57	58	56	59	57		674	56			4
5	54	47	48	58	64	57	60	58	56	54	56	58		670	56			5
6	71	60	64	60	70	67	64	70	61	65	61	63		776	65			6
7	63	54	68	68	61	67	66	67	59	66	64	62		765	64			7
8	63	66	70	64	66	62	72	72	68	61	60	63		787	66			8
9	59	65	58	59	59	63	62	59	73	65	61	58		741	62			9
10	62	62	70	53	58	62	60	76	54	61	58	60		736	61			10
11	68	64	61	58	64	65	61	64	64	61	62	56		748	62			11
12	60	64	63	59	62	57	60	69	58	62	54	57		725	60			12
13	63	68	59	57	58	57	57	51	47	62	46	53		678	56			13
14	51	58	56	52	52	48	56	51	53	56	46	57		636	53			14
15	52	57	54	61	56	59	50	57	51	47	52	53		649	54			15
16	47	51	54	51	55	49	53	54	53	42	54	51		614	51			16
17	52	53	55	57	55	57	60	64	58	59	55	52		677	56			17
18	45	44	48	42	53	45	54	54	55	56	45	51		592	49			18
19	51	51	46	43	56	53	47	56	57	52	52	55		619	52			19
20	43	55	51	54	50	52	55	49	58	54	51	48		620	52			20
21	57	51	61	62	66	71	62	62	60	55	62	60		729	61			21
22	68	62	66	71	61	64	63	59	72	60	62	63		771	64			22
23	55	62	59	61	58	59	60	62	58	65	59	59		717	60			23
24	54	50	57	56	54	61	53	55	65	51	51	59		666	56			24
25	58	56	58	59	60	50	63	67	67	59	55	67		719	60			25
26	60	53	59	57	63	64	63	67	61	57	61	64		729	61			26
27	64	66	62	64	60	65	67	58	58	58	60	58		740	62			27
28	70	65	63	65	65	72	73	69	66	59	62	48		777	65			28
29	61	48	55	57	54	57	60	63	65	60	56	58		694	58			29
30	58	55	62	62	55	65	57	50	69	59	62	65		719	60			30
31																		31
Sum	1721	1708	1763	1744	1763	1777	1775	1805	1788	1741	1693	1706		20984	1750	58.3	(30 days)	
Mean	57.4	56.9	58.8	58.1	58.8	59.2	59.2	60.2	59.6	58.0	56.4	56.9		699.5				
														58.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 192

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	58	60	53	59	57	63	59	58	69	61	64	61	722	60		1
2	55	54	58	64	63	70	69	67	65	72	69	58	764	64		2
3	66	65	75	68	66	73	66	61	62	60	60	69	791	66		3
4	66	59	51	63	53	64	60	68	54	60	64	50	713	59		4
5	53	51	48	51	48	54	51	60	49	50	49	58	622	52		5
6	56	48	47	49	47	44	47	57	58	40	53	48	594	50		6
7	52	37	53	53	53	49	45	59	48	56	62	61	628	52		7
8	52	51	60	57	51	50	57	60	63	60	60	61	682	57		8
9	51	57	61	62	62	56	69	69	62	64	64	64	741	62		9
10	66	67	63	57	54	63	66	68	68	67	59	62	760	63		10
11	59	53	66	66	68	69	72	63	70	70	68	65	789	66		11
12	67	63	61	64	70	73	67	70	70	73	58	64	800	67		12
13	50	62	56	52	60	60	59	74	69	61	62	66	731	61		13
14	62	53	62	52	57	67	59	55	55	50	51	47	670	56		14
15	49	53	59	54	59	52	51	58	45	49	49	45	623	52		15
16	44	45	43	43	43	50	54	46	49	42	41	44	544	45		16
17	56	50	54	53	50	51	55	54	59	57	54	51	644	54		17
18	58	63	62	60	56	61	64	64	54	63	56	56	717	60		18
19	57	56	65	63	64	60	49	47	57	51	47	56	672	56		19
20	58	50	46	53	50	56	54	43	59	43	45	54	611	51		20
21	59	52	58	48	49	57	49	51	48	55	54	53	633	53		21
22	50	55	52	53	42	47	50	54	42	40	52	53	590	49		22
23	50	50	44	44	40	49	51	51	46	53	56	46	580	48		23
24	59	57	53	58	57	61	60	57	60	57	60	60	699	58		24
25	57	56	58	54	60	64	52	57	64	48	56	46	672	56		25
26	58	58	50	47	49	58	55	47	44	43	43	52	604	50		26
27	48	55	48	54	43	49	59	54	45	47	48	57	607	51		27
28	44	49	47	40	49	48	48	52	43	47	40	49	556	46		28
29	56	46	52	55	60	56	51	57	53	51	50	48	635	53		29
30	60	59	60	58	56	57	68	60	62	58	65	57	720	60		30
31	52	58	62	54	52	55	48	44	59	58	52	49	643	54		31
Sum	1728	1692	1727	1708	1688	1786	1764	1785	1751	1706	1711	1710	20756	1731	55.8 (31 days)	
Mean	55.7	54.6	55.7	55.1	54.5	57.6	56.9	57.6	56.5	55.0	55.2	55.2	669.6			
													55.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 193

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	41	47	45	54	46	44	44	47	49	52	37	47	553	46		1
2	45	49	43	49	53	58	56	54	49	55	54	50	615	51		2
3	51	45	48	54	53	46	50	54	52	60	43	47	603	50		3
4	47	47	56	53	60	47	53	51	56	56	52	50	628	52		4
5	51	56	58	52	58	57	55	57	54	56	60	57	671	56		5
6	55	53	64	54	56	50	48	42	65	54	45	56	642	54		6
7	51	52	46	45	47	49	48	50	59	39	48	46	580	48		7
8	41	60	51	51	49	47	55	52	44	57	53	44	604	50		8
9	51	54	55	54	52	45	56	55	50	46	55	48	621	52		9
10	44	49	45	49	49	49	47	58	31	31	19	23	494	41		10
11	34	46	38	45	45	36	40	52	45	35	34	34	484	40		11
12	35	46	39	43	47	47	48	47	45	45	35	32	509	42		12
13	35	35	35	29	31	37	43	39	37	39	39	39	438	36		13
14	44	43	38	45	47	46	45	45	45	50	50	39	537	45		14
15	47	46	49	47	51	48	46	55	54	43	47	49	582	48		15
16	35	58	48	43	57	52	60	53	50	50	53	48	607	51		16
17	47	53	52	55	54	58	61	59	59	50	56	56	660	55		17
18	62	59	48	58	54	56	50	49	54	62	46	55	653	54		18
19	46	53	41	42	45	54	54	45	46	40	46	42	554	46		19
20	52	48	43	50	48	47	50	54	52	51	57	40	592	49		20
21	43	47	41	50	50	48	45	53	53	48	54	41	573	48		21
22	43	46	49	43	43	45	56	51	45	47	58	58	584	49		22
23	44	49	43	45	45	48	63	48	52	53	46	49	585	49		23
24	41	41	46	42	43	52	61	53	48	50	43	41	561	47		24
25	42	43	37	41	45	47	47	55	45	45	42	35	524	44		25
26	42	37	43	45	41	44	54	47	43	42	40	39	517	43		26
27	43	57	50	44	40	48	38	51	47	44	42	45	549	46		27
28	39	45	37	33	47	37	44	43	52	43	38	46	504	42		28
29	45	39	36	37	41	39	45	35	36	39	40	41	473	39		29
30	42	47	36	33	40	37	42	38	44	42	39	36	476	40		30
31																31
Sum	1338	1450	1360	1385	1437	1418	1504	1492	1461	1424	1371	1333	16973	1413	47.1 (30 days)	
Mean	44.6	48.3	45.3	46.2	47.9	47.3	50.1	49.7	48.7	47.5	45.7	44.4	565.7			
													47.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 194

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	47	36	31	36	41	42	29	42	34	40	42	44		464	39			1
2	41	46	39	43	32	43	45	38	50	45	46	42		510	42			2
3	42	43	40	36	43	48	41	49	37	50	45	47		521	43			3
4	40	40	40	45	[	]	50	45	31	37	36	38		(402)	(40)	10		4
5	38	41	53	36	37	41	50	44	46	37	24	27		474	40			5
6	27	30	30	46	41	34	35	33	31	35	30	38		410	34			6
7	27	28	39	34	29	38	35	37	27	35	31	28		388	32			7
8	37	32	45	36	37	37	45	43	43	44	42	46		487	41			8
9	43	47	50	45	40	47	44	47	44	39	49	39		534	44			9
10	39	45	40	50	40	36	41	42	39	33	34	42		481	40			10
11	36	40	37	33	34	34	35	31	39	41	37	46		443	37			11
12	41	46	29	38	42	37	36	41	34	44	35	39		462	38			12
13	34	40	43	37	39	39	46	43	59	47	42	42		511	43			13
14	42	42	39	31	47	43	47	39	49	43	44	43		509	42			14
15	41	42	41	40	42	53	46	52	46	51	46	48		548	46			15
16	54	48	40	40	42	46	51	42	40	47	47	42		539	45			16
17	38	37	44	47	42	53	44	41	45	41	43	43		518	43			17
18	35	42	45	41	41	50	48	56	44	48	47	46		543	45			18
19	44	49	36	42	51	42	46	50	41	43	46	51		541	45			19
20	50	54	48	44	50	48	56	51	43	47	55	48		594	50			20
21	45	52	49	53	50	48	44	44	49	40	46	55		575	48			21
22	55	48	55	58	45	51	47	51	50	48	48	49		605	50			22
23	51	48	56	56	53	45	44	48	43	48	43	48		583	49			23
24	48	46	50	46	46	51	46	49	48	48	44	46		568	47			24
25	46	48	49	43	44	44	45	47	37	50	44	49		546	46			25
26	56	47	40	45	41	48	47	52	44	52	49	45		566	47			26
27	45	42	37	45	42	50	46	46	43	44	39	49		528	44			27
28	44	45	36	47	44	45	39	53	42	51	44	38		528	44			28
29	47	43	43	49	43	54	54	43	43	41	42	36		538	45			29
30	43	51	47	45	49	50	36	46	44	44	38	43		536	45			30
31	39	43	38	44	32	45	36	41	39	33	44	34		468	39			31
Sum	1275	1301	1269	1286	1259	1342	1304	1341	1273	1309	1266	1293		15518	1293	43.1	(30 days)	
Mean	42.5	43.4	42.3	42.9	42.0	44.7	43.5	44.7	42.4	43.6	42.2	43.1		5173	1333	43.0	(31 days)	
														43.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 195

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	40	37	40	41	40	49	40	42	34	46	31	42		482	40			1
2	44	36	37	46	37	44	40	48	42	40	41	40		495	41			2
3	48	43	41	40	43	39	43	42	39	50	49	49		526	44			3
4	44	44	46	37	31	40	31	32	21	17	18	25		386	32			4
5	27	31	42	40	42	37	39	38	36	33	33	25		423	35			5
6	36	37	38	37	41	46	32	46	42	39	49	37		480	40			6
7	42	38	42	45	46	46	56	52	44	43	33	44		531	44			7
8	39	46	46	42	45	47	55	47	40	47	38	38		530	44			8
9	39	40	39	34	42	40	47	47	49	38	49	36		500	42			9
10	42	32	42	40	38	46	56	51	58	51	44	45		545	45			10
11	46	42	50	44	47	50	46	40	48	48	41	45		547	46			11
12	41	42	45	49	39	49	44	42	50	55	55	49		560	47			12
13	52	48	51	48	53	56	60	51	50	51	48	60		628	52			13
14	47	52	52	45	48	42	50	52	47	51	42	45		573	48			14
15	47	47	47	50	52	45	54	40	52	44	39	44		561	47			15
16	42	39	38	46	47	54	44	53	53	51	59	47		573	48			16
17	51	50	49	48	51	53	57	48	62	51	49	54		623	52			17
18	53	45	56	50	51	50	56	62	39	55	52	57		626	52			18
19	39	45	51	51	47	51	49	49	44	42	56	44		568	47			19
20	43	37	53	53	53	50	50	55	60	46	48	50		598	50			20
21	51	43	46	49	50	56	55	51	59	55	58	47		620	52			21
22	49	53	50	43	43	48	45	52	43	46	46	52		570	48			22
23	52	49	49	50	53	50	53	42	48	52	56	57		611	51			23
24	44	50	58	42	54	51	62	42	51	55	52	48		609	51			24
25	45	44	46	44	49	48	51	49	37	50	41	48		552	46			25
26	44	43	43	50	47	50	48	47	46	44	36	46		544	45			26
27	39	42	45	40	46	50	47	45	46	41	43	38		522	44			27
28	42	37	33	45	43	50	45	47	41	49	38	33		503	42			28
29	45	39	39	35	41	44	40	36	41	42	30	39		471	39			29
30	39	43	42	44	40	36	47	45	38	37	42	32		485	40			30
31	36	41	30	39	36	41	37	40	40	42	37	33		452	38			31
Sum	1348	1315	1386	1367	1395	1458	1479	1433	1400	1411	1353	1349		16694	1392	44.9	(31 days)	
Mean	43.5	42.4	44.7	44.1	45.0	47.0	47.7	46.2	45.2	45.5	43.6	43.5		538.4				
														44.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 196

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	33	32	38	40	28	35	39	38	44	38	39	33		437	36		1
2	39	36	37	47	37	45	42	41	32	38	36	41		471	39		2
3	43	38	53	38	39	46	49	37	39	39	41	45		507	42		3
4	47	36	38	44	45	52	37	42	40	38	40	47		508	42		4
5	43	37	43	28	42	46	45	41	54	49	46	48		522	44		5
6	44	49	43	44	46	53	40	49	56	49	58	53		584	49		6
7	60	45	48	46	45	44	43	52	54	39	43	47		566	47		7
8	47	51	45	45	43	47	54	52	39	41	42	55		561	47		8
9	42	43	41	40	50	42	49	48	33	40	48	53		529	44		9
10	42	41	41	41	45	47	51	40	44	51	55	43		541	45		10
11	52	49	46	55	60	52	47	53	52	62	51	57		636	53		11
12	60	63	49	58	55	55	65	60	54	55	62	51		687	57		12
13	54	53	63	55	59	62	53	55	48	49	53	56		660	55		13
14	45	46	43	49	39	46	55	45	48	50	43	44		553	46		14
15	43	41	44	39	46	45	39	44	45	39	41	42		508	42		15
16	44	41	37	36	42	43	36	43	46	38	39	34		479	40		16
17	48	45	45	51	51	48	46	50	48	44	49	47		572	48		17
18	51	32	29	33	27	35	32	32	42	39	34	33		419	35		18
19	23	28	33	38	36	36	31	30	30	23	36	32		376	31		19
20	32	38	40	34	34	34	32	31	42	31	26	35		409	34		20
21	35	40	42	35	41	37	37	43	36	36	39	36		457	38		21
22	39	38	40	39	41	44	43	41	34	39	40	34		472	39		22
23	41	34	34	33	34	39	39	39	36	36	33	33		431	36		23
24	40	42	34	38	39	57	38	42	44	46	40	35		495	41		24
25	46	45	47	44	43	39	46	53	37	46	38	41		527	44		25
26	49	37	41	44	41	52	46	50	50	45	59	50		564	47		26
27	50	52	50	50	50	47	55	56	48	52	52	45		607	51		27
28	54	48	45	50	42	59	48	49	51	46	45	45		582	48		28
29	47	49	44	54	45	57	61	53	54	50	50	44		608	51		29
30	52	43	52	47	47	45	46	46	46	46	47	44		561	47		30
31																	31
Sum	1345	1272	1285	1295	1292	1389	1346	1355	1328	1294	1325	1303		15829	1318	43.9 (30 days)	
Mean	44.8	42.4	42.8	43.2	43.1	46.3	44.9	45.2	44.3	43.1	44.2	43.4		527.7			
														44.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 197

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	45	45	42	45	39	44	45	53	46	40	52	51		547	46		1
2	57	60	43	48	49	47	49	45	54	47	56	51		606	50		2
3	47	49	50	48	49	46	50	45	48	40	46	48		566	47		3
4	52	46	48	50	52	49	48	46	46	46	44	54		581	48		4
5	43	47	50	49	49	51	54	47	59	42	43	47		581	48		5
6	52	43	48	53	44	50	48	45	44	44	48	35		554	46		6
7	45	27	38	43	43	48	49	43	49	49	49	43		526	44		7
8	49	42	43	40	52	54	48	51	46	47	57	44		573	48		8
9	46	47	51	43	45	48	49	55	49	51	45	43		572	48		9
10	40	49	41	43	50	49	52	54	59	51	68	61		617	51		10
11	66	58	63	60	56	54	63	62	57	58	54	58		709	59		11
12	52	54	46	48	50	53	59	55	51	52	58	58		636	53		12
13	60	51	50	52	58	57	56	55	51	56	49	49		644	54		13
14	58	39	46	52	47	50	47	54	51	50	49	46		589	49		14
15	43	51	46	41	57	51	48	49	53	43	53	54		589	49		15
16	58	53	55	55	55	58	55	57	52	59	57	50		664	55		16
17	56	50	53	50	51	50	54	54	60	54	46	54		632	53		17
18	60	48	46	41	44	54	58	53	51	51	46	51		603	50		18
19	51	42	51	52	48	53	52	49	57	59	53	53		620	52		19
20	57	49	49	53	53	52	64	55	58	52	51	55		648	54		20
21	52	64	43	46	56	57	59	60	56	53	53	58		657	55		21
22	55	55	55	51	59	58	51	54	46	55	56	60		655	55		22
23	55	58	58	57	49	49	53	53	65	63	63	64		687	57		23
24	57	61	64	58	59	66	65	67	66	68	60	67		758	63		24
25	66	62	59	64	58	61	70	67	60	65	58	65		755	63		25
26	55	57	59	58	56	57	60	59	60	52	49	57		679	57		26
27	43	52	51	51	54	50	54	50	63	60	48	52		628	52		27
28	49	60	51	56	54	61	66	63						(460)	(58)	8	28
29						58	63	65	56	60	56	60		(418)	(60)	7	29
30	61	57	48	60	53	58	63	56	55	57	63	56		687	57		30
31	52	63	62	60	62	54	62	61	46	51	52	45		670	56		31
Sum	1533	1479	1458	1471	1497	1528	1585	1554	1558	1515	1526	1529		18233	1519	52.4 (29 days)	
Mean	52.9	51.0	50.3	50.7	51.6	52.7	54.7	53.6	53.7	52.2	52.6	52.7		628.7		52.8 (31 days)	
														52.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 198

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	54	52	58	49	57	52	57	54	52	52	59	54	650	54		1
2	64	59	58	60	66	68	71	63	60	68	64	68	769	64		2
3	60	59	60	62	66	62	68	68	71	66	67	59	768	64		3
4	60	67	59	55	54	62	62	61	64	63	64	60	731	61		4
5	62	55	51	61	62	66	69	58	59	62	54	59	718	60		5
6	55	54	55	56	65	57	58	45	52	53	48	51	649	54		6
7	60	59	65	68	59	68	62	68	66	73	68	61	777	65		7
8	71	66	65	63	59	63	56	64	63	69	65	69	773	64		8
9	67	63	61	68	68	72	65	61	67	72	63	69	796	66		9
10	69	72	67	65	74	71	75	72	73	66	67	71	842	70		10
11	75	70	62	69	69	73	75	72	73	72	70	72	852	71		11
12	70	65	69	73	65	71	72	67	59	65	68	71	815	68		12
13	64	64	52	65	61	60	66	65	61	61	56	63	738	62		13
14	50	46	57	50	48	55	58	62	63	62	64	66	681	57		14
15	57	56	55	59	56	63	70	67	67	65	66	60	741	62		15
16	59	63	59	56	56	65	67	72	75	68	66	66	772	64		16
17	59	67	53	63	47	64	63	60	60	54	71	64	725	60		17
18	60	65	55	54	55	60	57	51	60	47	52	53	669	56		18
19	51	65	51	60	57	57	56	46	60	59	54	50	666	56		19
20	52	51	55	58	61	55	60	61	60	59	61	69	702	58		20
21	55	56	63	66	65	60	69	69	76	74	67	63	783	65		21
22	65	65	66	62	65	56	63	69	64	47	57	62	741	62		22
23	64	61	62	59	57	61	59	59	60	66	62	61	731	61		23
24	62	65	62	67	75	73	77	75	71	65	73	64	829	69		24
25	66	68	74	69	66	80	67	65	72	64	75	71	837	70		25
26	72	73	71	68	67	69	70	64	70	63	64	65	816	68		26
27	67	67	72	69	61	62	64	59	64	61	57	57	760	63		27
28	57	58	63	63	61	52	61	61	62	51	50	58	697	58		28
29	59	49	56	58	55	61	56	60	55	60	51	52	672	56		29
30	59	54	59	57	58	56	56	60	56	57	57	66	695	58		30
31																31
Sum	1845	1834	1815	1852	1835	1894	1929	1878	1915	1864	1860	1874	22395	1866	62.2 (30 days)	
Mean	61.5	61.1	60.5	61.7	61.2	63.1	64.3	62.6	63.8	62.1	62.0	62.5	746.4			
													62.2			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 199

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1941

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	61	47	54	49	48	44	42	52	51	54	49	56	607	51		1
2	48	56	47	49	58	54	53	57	54	58	43	56	633	53		2
3	46	52	52	42	39	50	50	52	54	52	47	43	579	48		3
4	39	47	46	42	44	43	42	48	49	53	46	32	531	44		4
5	43	40	51	49	53	45	56	44	48	46	52	46	573	48		5
6	41	44	43	43	60	57	64	61	68	64	67	66	678	56		6
7	70	63	62	60	63	58	65	64	66	60	62	62	755	63		7
8	61	56	68	60	62	71	75	76	74	73	68	73	817	68		8
9	74	74	64	74	69	76	77	67	74	59	68	70	846	70		9
10	76	71	70	68	67	74	70	72	68	63	72	68	839	70		10
11	67	70	71	67	71	71	76	88	72	69	68	68	858	72		11
12	64	67	68	69	70	73	76	73	75	65	56	69	825	69		12
13	59	60	60	46	54	59	63	59	67	61	74	71	733	61		13
14	71	72	63	64	66	67	77	80	81	82	77	74	874	73		14
15	74	75	73	68	79	74	85	73	81	69	74	71	896	75		15
16	65	73	72	79	73	82	71	74	73	71	74	76	883	74		16
17	73	74	69	65	66	77	80	78	71	70	65	62	850	71		17
18	64	63	67	60	60	65	60	55	57	50	57	61	719	60		18
19	61	62	66	59	60	59	68	69	68	66	60	65	763	64		19
20	65	75	72	75	64	67	76	77	70	77	74	71	863	72		20
21	75	69	74	67	73	64	62	75	81	67	64	72	843	70		21
22	66	74	71	67	76	66	73	64	68	70	64	66	825	69		22
23	67	66	67	65	63	62	69	67	64	66	63	64	783	65		23
24	64	61	68	62	60	72	78	80	78	72	77	70	842	70		24
25	67	70	60	69	66	68	61	63	68	67	71	65	795	66		25
26	65	59	57	67	64	62	63	65	65	65	68	66	766	64		26
27	64	60	61	62	68	65	67	70	66	68	63	52	766	64		27
28	64	67	70	73	74	74	71	72	79	73	75	67	859	72		28
29	70	77	72	81	76	79	76	75	77	72	74	71	900	75		29
30	71	63	67	78	69	69	71	76	68	70	76	70	848	71		30
31	77	70	69	69	68	68	70	85	80	70	71	76	873	73		31
Sum	1972	1977	1974	1948	1983	2015	2087	2111	2115	2022	2019	1999	24222	2021	65.2 (31 days)	
Mean	63.6	63.8	63.7	62.8	64.0	65.0	67.3	68.1	68.2	65.2	65.1	64.5	781.3			
													65.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 200

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	73	62	64	75	72	70	74	73	70	67	73	64	837	70			1
2	64	63	72	63	74	82	75	84	81	80	74	76	888	74			2
3	75	79	77	68	78	78	70	69	63	73	57	73	860	72			3
4	64	68	64	65	70	70	64	64	67	71	68	60	795	66			4
5	72	54	75	71	69	74	79	81	83	82	76	77	893	74			5
6	86	73	79	76	89	82	79	88	87	88	76	85	988	82			6
7	82	83	79	81	92	85	84	94	90	94	91	86	1041	87			7
8	94	83	83			87	83	96	87	85	83	88	(869)	(87)	10		8
9	76	73	76	75	75	80	73	81	75	79	78	78	919	77			9
10	82	78	84	75	81	86	99	89	83	86	86	89	1018	85			10
11	83	88	74	76	80	76	80	73	80	77	85	75	947	79			11
12	72	76	64	74	77	71	76	82	79	75	66	86	898	75			12
13	75	70	71	79	72	75	72	75	64	70	65	65	853	71			13
14	71	71	69	70	70	67	63	76	72	76	73	67	845	70			14
15	66	76	81	71	74	80	70	74	69	79	73	78	891	74			15
16	78	72	75	75	75	76	78	75	71	74	74	69	892	74			16
17	71	75	64	73	70	71	70	80	67	64	74	72	851	71			17
18	69	63	60	60	72	69	63	68	68	65	61	61	779	65			18
19	68	67	67	66	68	67	78	72	79	73	73	74	852	71			19
20	73	68	74	73	70	83	79	87	81	79	84	83	934	78			20
21	72	87	89	88	83	87	86	91	84	90	82	77	1016	85			21
22	88	85	83	83	76	84	78	86	82	75	74	71	965	80			22
23	76	74	67	75	77	78	86	79	75	83	85	72	927	77			23
24	71	77	72	73	74	72	73	76	65	66	70	67	856	71			24
25	67	67	77	79	73	74	68	84	84	69	78	76	896	75			25
26	75	75	84	77	76	78	79	92	81	72	82	72	943	79			26
27	73	76	78	84	80	77	76	78	73	75	78	74	922	77			27
28	79	72	69	82	82	81	86	83	84	72	79	77	946	79			28
29	77	81	85	76	73	81	84	71	73	82	80	85	948	79			29
30	72	74	80	75	71	80	78	78	81	75	74	69	907	76			30
31	62	74	64	73	72	67	76	79	78	77	72	73	867	72			31
Sum	2212	2201	2217	2231	2265	2301	2296	2382	2289	2288	2261	2231	27174	2265	75.5	(30 days)	
Mean	73.7	73.4	73.9	74.4	75.5	76.7	76.5	79.4	76.3	76.3	75.4	74.4	905.9	2352	75.9	(31 days)	
													75.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 201

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	65	78	74	81	78	79	82	83	94	83	86	90	973	81		1
2	83	74	83	84	83	84	88	86	95	95	92	95	1042	87		2
3	88	86	86	91	78	85	88	85	91	89	85	82	1034	86		3
4	79	75	72	79	75	75	80	86	82	88	74	81	946	79		4
5	76	77	70	78	76	75	78	81	77	71	69	71	899	75		5
6	71	62	73	68	68	75	74	68	65	78	78	73	853	71		6
7	68	71	72	71	83	78	84	82	81	75	77	70	912	76		7
8	74	77	74	77	80	76	83	81	72	86	82	82	944	79		8
9	75	73	76	62	63	76	81	70	80	71	76	80	883	74		9
10	79	81	73	73	76	76	75	78	77	72	80	77	917	76		10
11	65	71	69	86	72	68	82	71	80	84	84	81	913	76		11
12	86	82	82	82	78	84	86	96	93	87	84	82	1022	85		12
13	76	88	74	85	78	81	84	88	87	88	78	81	988	82		13
14	87	75	83	75	74	77	84	78	79	79	81	80	952	79		14
15	80	79	70	71	78	79	88	79	77	76	74	75	926	77		15
16	66	63	65	66	79	70	61	70	73	63	65	63	804	67		16
17	61	56	66	64	68	60	77	72	74	72	71	71	812	68		17
18	81	77	77	70	82	78	82	82	78	84	80	77	948	79		18
19	74	77	77	86	89	95	95	90	86	86	84	85	1024	85		19
20	89	90	98	93	98	94	90	98	83	85	89	87	1094	91		20
21	95	93	95	94	88	103	105	112	95	97	94	85	1156	96		21
22	90	91	85	85	85	90	89	83	88	86	78	85	1035	86		22
23	82	80	86	79	91	83	77	80	74	81	78	73	964	80		23
24	63	68	71	68	70	70	73	85	79	69	72	73	861	72		24
25	72	77	68	69	74	76	78	83	80	81	82	78	918	76		25
26	78	75	76	77	76	76	76	80	88	74	76	79	931	78		26
27	86	78	84	87	82	80	78	82	70	61	77	74	939	78		27
28	81	84	69	98	152	101	87	90	77	72	69	74	1054	88		28
29																29
30																30
31																31
Sum	2170	2158	2148	2199	2274	2244	2305	2319	2275	2233	2215	2204	26744	795	(28 days)	
Mean	77.5	77.1	76.7	78.5	81.2	80.1	82.3	82.8	81.2	79.8	79.1	78.7	955.0			
													79.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 202

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	71	61	41	26	-9	2	6	0	5	2	18	26		249	21			1
2	33	45	40	39	36	33	28	28	33	41	35	26		417	35			2
3	30	40	30	38	43	44	42	40	40	43	51	43		484	40			3
4	46	41	54	44	41	54	52	48	44	37	49	44		554	46			4
5	49	47	57	44	48	57	54	54	50	48	49	50		607	51			5
6	45	60	52	59	66	63	65	63	53	51	56	55		688	57			6
7	143	89	71	67	63	63	57	54	60	52	49	50		818	68			7
8	55	55	55	47	42	45	42	55	58	63	45	49		611	51			8
9	44	39	40	50	51	50	60	57	62	61	72	66		652	54			9
10	59	59	64	55	60	63	66	54	64	65	58	69		736	61			10
11	58	55	63	48	52	58	45	52	57	60	59	61		668	56			11
12	65	60	62	61	69	61	67	60	78	69	56	67		775	65			12
13	59	65	58	63	72	67	67	68	65	66	58	62		770	64			13
14	58	59	60	70	60	61	60	64	64	69	72	66		763	64			14
15	64	64	65	76	66	75	67	70	69	70	63	70		819	68			15
16	57	54	54	66	59	71	61	69	59	60	53	59		722	60			16
17	59	57	55	54	64	63	63	58	61	64	61	66		725	60			17
18	58	62	66	72	73	77	77	74	78	83	71	80		871	73			18
19	68	72	74	72	70	64	76	67	62	64	66	66		821	68			19
20	67	69	74	59	69	70	72	74	65	72	65	68		824	69			20
21	69	72	68	69	68	68	66	60	63	67	65	62		797	66			21
22	76	74	74	73	78	80	78	75	79	74	75	75		911	76			22
23	75	82	79	78	83	79	76	81	76	75	69	72		925	77			23
24	75	76	77	79	73	75	74	70	75	76	71	75		896	75			24
25	74	67	81	73	74	69	70	75	64	70	68	67		852	71			25
26	73	65	78	87	80	79	70	73	68	73	73	73		892	74			26
27	72	73	67	70	66	70	75	67	74	71	67	62		834	70			27
28	67	70	68	72	67	63	69	70	77	70	78	80		851	71			28
29	68	73	73	71	77	73								(435)	(72)^6			29
30																		30
31					88	77	85	74	77	76	69	70		(616)	(77)^8			31
Sum	1769	1732	1727	1711	1684	1724	1705	1680	1703	1716	1672	1709		20532	1711	61.1	(28 days)	
Mean	63.2	61.9	61.7	61.1	60.1	61.6	60.9	60.0	60.8	61.3	59.7	61.0		733.3	1860	62.0	(30 days)	
														61.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 203

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	60	61	63	66	72	72	67	69	66	58	57	61		772	64			1
2	67	70	70	63	66	72	69	66	65	61	65	59		793	66			2
3	56	64	68	67	58	73	56	55	62	63	59	59		740	62			3
4	58	70	67	68	73	61	61	61	60	49	64	49		741	62			4
5	60	59	58	50	60	60	49	51	55	57	50	60		669	56			5
6	53	57	56	62	49	45	63	52	57	62	59	52		667	56			6
7	55	59	55	48	53	56	57	59	56	59	57	55		669	56			7
8	62	63	64	60	64	67	64	63	62	61	54	54		738	62			8
9	64	61	60	61	52	66	54	60	59	56	61	60		714	60			9
10	58	64	66	61	59	59	60	63	44	61	61	64		720	60			10
11	59	65	66	55	66	67	73	78	69	79	77	65		819	68			11
12	66	68	71	65	69	71	65	81	68	81	70	77		852	71			12
13	75	61	76	70	67	71	61	65	67	65	60	69		807	67			13
14	65	66	58	68	64	64	62	57	58	58	61	61		742	62			14
15	54	55	63	52	60	57	56	57	56	57	42	50		659	55			15
16	55	50	52	51	51	53	65	65	61	55	53	55		666	56			16
17	67	64	64	55	53	55	64	57	60	61	61	64		725	60			17
18	58	58	62	62	62	73	68	73	65	65	83	68		797	66			18
19	71	70	68	70	83	63	64	68	65	76	76	73		847	71			19
20	77	71	70	62	73	78	72	67	68	68	62	70		838	70			20
21	68	69	72	69	73	70	62	67	70	68	74	74		836	70			21
22	67	68	75	66	71	65	76	65	61	73	65	67		819	68			22
23	64	60	63	57	63	53	71	61	59	62	61	66		740	62			23
24	62	52	66	58	64	66	60	55	65	59	59	53		719	60			24
25	55	62	69	54	59	64	61	57	57	60	50	55		703	59			25
26	54	57	63	58	53	67	55	61	56	55	57	51		687	57			26
27	65	52	58	54	55	58	63	63	70	53	67	53		711	59			27
28	53	49	54	57	60	63	60	59	62	59	57	45		678	56			28
29	55	52	58	59	58	60	60	54	56	54	55	52		673	56			29
30	51	44	59	59	63	61	55	57	53	56	46	48		652	54			30
31																		31
Sum	1834	1821	1914	1807	1873	1910	1873	1866	1832	1851	1823	1789		22193	1851	61.7	(30 days)	
Mean	61.1	60.7	63.8	60.2	62.4	63.7	62.4	62.2	61.1	61.7	60.8	59.6		739.7				
														61.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 204

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	46	52	51	64	59	57	56	59	63	63	60	60	690	58			1
2	58	58	67	71	57	61	59	62	66	60	65	62	746	62			2
3	64	58	61	53	62	60	56	59	58	62	61	50	704	59			3
4	55	52	58	58	62	63	57	63	61	48	59	57	693	58			4
5	66	55	60	56	69	67	60	67	66	57	57	60	740	62			5
6	65	57	65	69	58	69	54	64	67	56	62	65	751	63			6
7	58	55	60	47	54	60	65	68	67	63	59	67	723	60			7
8	60	61	60	61	57	63	59	73	60	62	63	64	743	62			8
9	72	62	68	62	64	67	76	74	70	70	59	63	807	67			9
10	62	67	61	68	67	67	63	69	73	70	67	72	806	67			10
11	70	66	65	62	61	59	64	61	58	63	67	75	771	64			11
12	61	55	62	66	59	60	55	65	70	58	61	63	735	61			12
13	48	54	53	54	52	69	67	58	71	60	57	57	700	58			13
14	65	60	62	56	69	58	65	67	61	59	65	61	748	62			14
15	64	65	61	59	54	51	59	55	64	61	70	63	726	60			15
16	62	64	60	65	52	63	65	60	64	57	61	68	741	62			16
17	60	61	60	57	61	51	62	53	62	57	53	62	699	58			17
18	52	51			43	62	52	70	55	53	53	57	(548)	(55)	10		18
19	60	58	55	54	50	61	49	66	53	66	61	61	694	58			19
20	61	49	51	53	60	58	57	57	59	53	54	59	671	56			20
21	72	58	57	65	63	58	52	63	61	60	54	60	723	60			21
22	54	52	55	52	58	55	62	71	63	57	62	62	703	59			22
23	60	48	68	62	60	61	66	56	59	56	55	62	713	59			23
24	59	60	59	74	68	67	68	67	65	68	70	67	792	66			24
25	68	71	55	65	71	73	72	58	68	66	70	63	800	67			25
26	68	60	65	56	54	64	64	57	67	67	63	65	750	62			26
27	55	67	62	48	52	61	51	75	57	55	56	64	703	59			27
28	54	56	55	53	56	57	57	54	48	58	58	58	664	55			28
29	54	55	56	55	58	59	53	56	59	59	58	50	672	56			29
30	50	56	57	51	45	52	52	64	52	60	56	55	650	54			30
31	50	55	53	51	54	58	57	58	55	54	63	56	664	55			31
Sum	1801	1747	1782	1767	1766	1829	1802	1879	1867	1805	1826	1851	21722	1809	60.3	(30 days)	
Mean	60.0	58.2	59.4	58.9	58.9	61.0	60.1	62.6	62.2	60.2	60.9	61.7	724.1	1864	60.1	(31 days)	
													60.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 205

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	66	63	65	61	65	63	58	69	60	68	59	58	755	63			1
2	66	56	55	50	60	46	61	55	51	53	60	63	676	56			2
3	48	60	57	48	53	61	56	62	60	54	60	58	677	56			3
4	58	56	55	56	56	66	61	58	60	49	61	58	694	58			4
5	54	52	60	65	62	48	59	61	59	52	56	62	690	58			5
6	61	51	58	57	61	60	61	57	70	63	58	65	722	60			6
7	55	62	59	56	53	64	60	56	62	66	63	49	705	59			7
8	61	55	54	60	56	67	60	61	51	56	59	56	696	58			8
9	67	53	54	58	58	56	67	60	50	57	59	56	695	58			9
10	56	55	62	50	50	61	62	59	69	65	66	63	718	60			10
11	49	61	49	52	60	61	58	54	52	52	57	53	658	55			11
12	55	51	60	55	55	54	54	55	56	64	55	65	679	57			12
13	60	62	55	53	53	58	62	53	61	54	55	63	689	57			13
14	59	60	45	62	61	52	50	53	51	64	60	64	681	57			14
15	63	65	60	61	63	57	55	56	62	60	68	64	734	61			15
16	59	56	61	59	63	72	77	64	58	55	55	54	733	61			16
17	58	51	58	47	55	52	55	52	61	61	52	57	659	55			17
18	48	58	54	59	58	59	58	57	50	59	48	50	658	55			18
19	44	41	54	51	66	51	54	53	47	46	41	40	588	49			19
20	42	39	51	54	54	47	45	45	51	42	43	48	561	47			20
21	57	53	48	46	45	45	47	55	55	49	44	49	593	49			21
22	49	53	52	56	56	43	54	47	53	48	56	50	617	51			22
23	48	56	63	53	62	63	52	57	63	63	57	56	693	58			23
24	57	56	60	66	55	56	60	69	49	49	53	57	687	57			24
25	54	60	63	64	46	58	52	49	52	58	63	60	679	57			25
26	64	59	51	50	47	56	49	56	52	51	54	55	644	54			26
27	54	52	55	55	51	52	56	53	59	56	55	52	650	54			27
28	57	47	53	54	50	53	55	56	57	50	56	54	642	54			28
29	54	60	49	59	52	51	44	51	52	57	58	57	644	54			29
30	54	58	52	54	43	48	52	60	60	51	56	51	639	53			30
31																	31
Sum	1677	1661	1672	1671	1669	1680	1694	1693	1693	1672	1687	1687	20156	1681	56.0	(30 days)	
Mean	55.9	55.4	55.7	55.7	55.6	56.0	56.5	56.4	56.4	55.7	56.2	56.2	671.7				
													56.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 206

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^b	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	47	46	46	49	52	52	50	52	58	51	54	63	620	52			1
2	50	51	46	54	52	49	55	56	44	50	45	53	605	50			2
3	53	50	55	57	52	58	56	48	59	61	57	55	661	55			3
4	50	51	47	47	46	58	51	56	56	49	48	51	610	51			4
5	60	51	54	51	49	64	56	52	55	56	52	53	653	54			5
6	51	53	50	55	50	55	62	62	59	60	50	63	670	56			6
7	59	48	57	56	53	53	53	57	61	58	61	69	685	57			7
8	63	57	56	54	55	46	56	55	59	62	58	56	677	56			8
9	55	54	57	55	61	49	53	52	52	61	47	54	650	54			9
10	50	48	45	51	44	49	45	51	48	59	44	26	560	47			10
11	46	39	43	45	52	52	53	53	50	50	40	48	571	48			11
12	37	47	41	44	43	51	48	46	39	39	43	44	522	44			12
13	45	36	37	35	39	41	46	39	36	36	39	31	460	38			13
14	37	39	35	32	42	43	38	43	42	44	46	46	487	41			14
15	41	43	42	40	46	41	44	48	50	43	50	44	532	44			15
16	48	43	35	41	42	41	41	42	41	40	46	50	510	42			16
17	48	44	53	41	42	49	37	46	50	46	40	43	539	45			17
18	36	45	38	38	39	42	56	45	46	48	50	31	514	43			18
19	45	38	53	42	42	38	55	47	49	49	53	46	557	46			19
20	49	52	49	49	46	49	46	50				46	(436)	(48)[9]			20
21	39	46	45	45	43	52	55	48	47	58	47	46	571	48			21
22	48	51	53	44	49	53	48	50	53	49	50	50	598	50			22
23	49	48	52	55	57	48	50	42	43	43	51	47	585	49			23
24	43	48	41	38	39	49	46	46	46	44	54	52	546	46			24
25	43	47	55	38	52	49	47	45	39	50	46	52	563	47			25
26	46	47	43	40	38	46	47	51	54	42	49	36	539	45			26
27	43	49	40	46	41	43	42	49	41	45	40	50	529	44			27
28	45	45	44	47	46	53	59	62	48	55	47	43	594	50			28
29	48	40	47	49	44	52	46	55	50	52	54	55	592	49			29
30	49	46	45	43	47	52	43	50	48	47	53	51	574	48			30
31	47	50	45	58	49	44	49	53	46	50	52	42	585	49			31
Sum	1421	1400	1400	1390	1406	1472	1487	1501	1469	1497	1466	1450	17359	1448	48.3	(30 days)	
Mean	47.4	46.7	46.7	46.3	46.9	49.1	49.6	500	49.0	49.9	48.9	48.3	578.8	1496	48.3	(31 days)	
													48.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 207

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	39	50	49	43	45	53	46	50	41	55	49	50	570	48			1
2	42	43	44	49	50	46	48	51	34	53	40	42	542	45			2
3	38	43	42	54	50	42	40	51	59	46	54	48	567	47			3
4	50	51	48	50	57	52	53	54	56	58	54	54	637	53			4
5	50	52	52	48	52	49	53	64	56	58	57	54	645	54			5
6	51	44	53	50	55	56	56	61	58	59	53	49	645	54			6
7	50	53	51	56	54	50	52	49	62	59	65	57	658	55			7
8	53	45	57	54	54	61	56	59	48	54	55	51	647	54			8
9	47	54	47	50	47	52	44	54	49	55	51	51	601	50			9
10	54	50	55	41	48	50	53	50	47	51	47	47	593	49			10
11	47	52	48	45	50	52	53	50	47	47	57	50	598	50			11
12	47	48	49	52	46	57	55	58	53	55	49	53	622	52			12
13	57	54	48	43	53	52	53	50	50	51	43	50	604	50			13
14	51	46	52	48	49	54	56	56	57	57	52	45	623	52			14
15	50	47	47	48	43	51	57	59	54	55	47	45	603	50			15
16	46	44	40	55	47	54	47	47	51	51	58	41	581	48			16
17	44	44	51	34	42	54	52	60	49	49	51	52	582	48			17
18	42	47	45	47	47	47	51	50	55	45	59	40	575	48			18
19	45	46	51	52	51	52	45	62	57	47	59	51	612	51			19
20	43	46	47	41	50	47	53	44	48	45	54	47	565	47			20
21	48	39	41	50	57	39	43	49	38	50	50	36	540	45			21
22	43	49	49	51	47	46	54	43	50	50	58	40	580	48			22
23	55	45	49	48	47	48	51	47	51	57	48	53	599	50			23
24	46	48			57	57	60	55	56	52	55	61	(547)	(55)[10]			24
25	63	58	62	58	64	58	59	52	51	49	61	52	687	57			25
26	53	50	51	45	46	53	54	47	47	54	53	45	598	50			26
27	54	44	58	60	48	43	41	41	48	54	57	54	602	50			27
28	51	59	54	44	41	48	53	52	48	50	59	43	596	50			28
29	53	49	58	51	47	52	57	51	58	52	58	58	644	54			29
30	53	59	59	60	61	59	65	69	57	54	46	46	688	57			30
31	57	55	52	55	58	58	58	65	59	51	55	53	676	56			31
Sum	1476	1460	1509	1482	1506	1535	1558	1595	1538	1571	1593	1457	18280	1522	50.7	(30 days)	
Mean	49.2	48.7	50.3	49.4	50.2	51.2	51.9	53.2	51.3	52.4	53.1	48.6	609.5	1577	50.9	(31 days)	
													50.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 208

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	44	54	59	50	56	46	54	57	51	49	49	53		622	52			1
2	49	52	52	49	44	50	58	57	58	57	52	53		631	53			2
3	59	50	60	55	55	52	57	54	56	52	59	55		664	55			3
4	55	60	53	56	53	56	56	56	58	54	56	52		665	55			4
5	57	48	46	48	60	59	60	56	47	51	52	44		628	52			5
6	53	56	42	48	52	51	56	50	50	51	53	55		617	51			6
7	54	46	44	56	63	60	55	50	55	51	43	55		632	53			7
8	59	52	48	43	56	53	53	53	54	49	49	59		628	52			8
9	52	47	50	40	51	52	54	52	46	52	53	57		606	50			9
10	54	58	53	54	44	53	53	55	52	55	55	56		642	54			10
11	56	56	62	55	59	63	63	58	57	60	50	51		690	58			11
12	56	63	54	55	58	58	56	61	59	62	51	55		688	57			12
13	48	46	47	52	50	49	56	48	52	46	58	47		599	50			13
14	52	50	46	53	50	42	50	48	57	53	52	47		600	50			14
15	53	53	52	47	48	44	53	53	44	44	57	51		599	50			15
16	49	59	55	58	48	43	46	47	52	39	50	55		601	50			16
17	55	49	44	54	53	44	55	55	55	52	51	45		612	51			17
18	46	46	44	58	45	54	51	52	57	46	47	51		597	50			18
19	53	48	40	52	50	46	48	53	47	50	49	41		577	48			19
20	40	48	49	50	41	45	59	53	53	57	60	59		614	51			20
21	57	64	61	57	60	53	56	53	57	54	55	49		676	56			21
22	58	44	55	55	56	61	59	61	58	48	57	56		668	56			22
23	53	54	62	62	53	62	60	58	56	62	60	60		702	58			23
24	54	56	53	58	61	57	57	54	57	56	62	67		692	58			24
25	59	70	61	58	55	55	56	60	49	56	51	55		685	57			25
26	59	61	61	62	56	57	59	54	48	53	44	53		667	56			26
27	54	58	46	46	49	64	43	55	53	52	57	53		630	52			27
28	52	62	61	57	45	61	66	66	58	64	62	55		709	59			28
29	61	65	57	56	54	61			64	65	65	67		(615)	(62) [10]			29
30	71	61	61	60	61	59	56	62	63	60	62	65		741	62			30
31																		31
Sum	1561	1571	1521	1548	1532	1549	1605	1591	1559	1535	1556	1554		18682	1556	53.7	(29 days)	
Mean	53.8	54.2	524	534	52.8	53.4	55.3	54.9	53.8	52.9	53.7	53.6		644.2	1618	53.9	(30 days)	
														53.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 209

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	56	59	63	60	72	66	57	62	68	54	57	72		746	62			1
2	68	68	57	60	64	64	62	63	66	54	64	54		744	62			2
3	61	66	63	60	58	57	59	52	67	58	57	60		718	60			3
4	53	60	54	50	56	64	61	58	55	61	55	59		686	57			4
5	59	58	57	60	54	59	53	68	60	64	71	64		727	61			5
6	68	67	60	60	60	62	64	61	70	57	62	64		755	63			6
7	61	59	64	61	63	53	62	65	63	61	60	55		727	61			7
8	51	56	62	65	60	68	60	65	64	62	64	59		736	61			8
9	51	61	68	63	63	60	63	65	60	58	60	56		728	61			9
10	56	68	63	62	64	67	70	66	63	61	62	63		765	64			10
11	62	66	59	67	71	61	62	66	62	61	71	59		767	64			11
12	59	72	56	60	61	67	66	65	60	58	63	66		753	63			12
13	49	50	53	56	60	61	58	69	60	53	63	53		685	57			13
14	48	58	54	56	59	59	56	60	65	58	57	63		693	58			14
15	62	53	55	56	63	52	63	64	60	57	55	65		705	59			15
16	54	63	51											(168)	(56) [3]			16
17																		17
18																		18
19																		19
20									66	62	71	66		(265)	(66) [4]			20
21	64	59	63	73	61	56	69	64	64	70	63	67		773	64			21
22	65	69	60	68	73	65	68	63	59	63	71	69		793	66			22
23	66	72	61	64	59	59	65	70	64	71	67	62		780	65			23
24	55	67	65	69	56	64	62	61	61	63	56	62		741	62			24
25	60	63	52	51	56	72	68	66	63	69	67	61		748	62			25
26	58	59	57	57	61	64	57	71	65	75	66	80		770	64			26
27	85	79	76	78	77	73	68	75	73	71	64	65		884	74			27
28	72	65	57	59	61	65	66	54	67	59	61	53		739	62			28
29	52	57	52	62	51	60	59	63	62	60	54	56		688	57			29
30	54	61	50	53	46	54	45	52	51	50	50	46		612	51			30
31	46	48	53	43	58	54	57	65	52	54	61	54		645	54			31
Sum	1541	1620	1534	1573	1587	1606	1600	1653	1624	1582	1601	1587		19108	1594	61.3	(26 days)	
Mean	59.3	62.3	59.0	60.5	61.0	61.8	61.5	63.6	62.5	60.8	61.6	61.0		734.9	1716	61.3	(28 days)	
														61.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 210

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	52	61	68	60	60	70	67	76	76	69	73	67	799	67			1
2	75	70	63	67	69	65	65	62	65	73	64	65	803	67			2
3	68	64	63	72	62	73	72	80	66	62	65	63	810	68			3
4	58	60	66	58	65	62	66	59	62	58	61	63	738	62			4
5	60	67	66	48	57	55	57	64	64	76	63	55	732	61			5
6	57	52	60	56	51	62	50	58	62	56	62	63	689	57			6
7	65	53	55	60	67	59	66	64	68	76	73	70	776	65			7
8	60	54	54	73	77	70	60	72	79	64	76	64	803	67			8
9	67	72	70	61	68	69	73	68	65	69	63	66	811	68			9
10	60	60	64	62	61	53	63	66	63	72	76	75	775	65			10
11	71	73	77	71	82	72	66	82	82	81	76	78	911	76			11
12	77	85	76	68	81	75	84	79	77	75	83	75	935	78			12
13	72	73	72	75	69	79	79	85	78	94	88	85	949	79			13
14	92	86	83	81	83	71	81	82	77	75	77	74	962	80			14
15	68	69	59	65	65	73	72	66	69	70	71	68	815	68			15
16	66	59	69	70	70	62	59	63	73	60	63	59	773	64			16
17	64	57	52	60	62	68	72	53	61	64	64	61	738	62			17
18	66	62	69	67	69	60	70	72	60	64	61	60	780	65			18
19	70	61	70	61	63	65	60	72	66	81	75	65	809	67			19
20	60	68	60	62	60	54	68	64	67	68	69	64	764	64			20
21	74	65	59	71	57	72	70	65	66	67	62	69	797	66			21
22	68	62	73	72	75	74	72	75	80	71	69	76	867	72			22
23	72	59	67	74	72	73	77	76	69	65	68	67	839	70			23
24	64	61	64	69	63	72	72	76	77	77	69	73	837	70			24
25	77	78	77	78	73	69	69	75	77	70	60	72	875	73			25
26	70	65	65	67	68	70	76	72	65	64	64	68	814	68			26
27	72	68	77	78	78	84	75	83	81	87	84	83	950	79			27
28	82	75	85	75	79	74	79	78	76	70	71	78	922	77			28
29	69	68	80	77	76	76	79	72	75	71	79	69	891	74			29
30	69	74	78	83	77	79	81	75	73	78	75	75	917	76			30
31																	31
Sum	2045	1981	2041	2041	2059	2060	2100	2134	2119	2127	2104	2070	24881	2075	69.2	(30 days)	
Mean	68.2	66.0	68.0	68.0	68.6	68.7	70.0	71.1	70.6	70.9	70.1	69.0	829.2				
													69.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 211

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1942

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	77	80	77	67	80	72	72	77	85	74	81	84	926	77			1
2	78	87	86	85	92	93	103	105	110	98	86	91	1114	93			2
3	76	86	78	85	86	91	87	85	91	85	82	74	1006	84			3
4	80	82	80	89	80	91	83	96	86	86	82	79	1014	84			4
5	84	80	79	79	72	81	74	81	75	77	74	74	930	78			5
6	77	75	74	74	81	70	71	77	80	79	77	71	906	76			6
7	87	75	68	76	75	79	83	80	85	79	76	74	937	78			7
8	84	85	78	80	85	96	79	84	86	80	76	83	996	83			8
9	79	91	85	85	79	92	83	89	85	84	73	85	1010	84			9
10	81	74	83	74	73	81	77	74	76	74	71	73	911	76			10
11	82	75	68	71	76	76	80	74	80	81	80	89	932	78			11
12	76	76	80	83	74	86	77	81	81	83	84	82	963	80			12
13	88	82	85	81	90	84	90	95	84	85	88	88	1040	87			13
14	90	96	88	88	81	81	81	81	76	82	88	80	1012	84			14
15	82	75	82	71	80	83	76	81	83	78	74	80	945	79			15
16	83	85	83	84	85	81	85	89	88	87	100	91	1041	87			16
17	86	94	89	87	85	94	86	81	90	86	81	77	1036	86			17
18	74	84	82	95	90	89	85	96	82	84	82	89	1032	86			18
19	87	84	81	76	75	82	87	87	83	81	86	82	991	83			19
20	88	90	88	81	90	86	85	89	86	93	96	91	1063	89			20
21	81	85	73	85	75	89	82	83	78	83	77	79	970	81			21
22	78	76	68	75	81	78	73	75	78	70	68	69	889	74			22
23	68	73	77	65	66	69	78	73	77	74	61	70	851	71			23
24	70	71	62	59	66	69	69	82	69	67	67	76	827	69			24
25	70	64	67	71	73	65	78	77	77	73	70	69	854	71			25
26	62	61	63	66	72	67	76	71	77	63	69	70	817	68			26
27	68	71	70	64	71	71	71	72	74	82	69	77	860	72			27
28	66	58	66	67	62	64	79	68	73	70	64	64	801	67			28
29	63	63	58	63	64	67	70	67	56	60	62	67	760	63			29
30	63	70	68	72	71	83	89	78	75	83	83	74	909	76			30
31	84	79	79	78	83	88	83	90	84	89	84	70	991	83			31
Sum	2412	2427	2365	2376	2413	2498	2492	2538	2510	2470	2411	2422	29334	2447	78.9	(31 days)	
Mean	77.8	78.3	76.3	76.6	77.8	80.6	80.4	81.9	81.0	79.7	77.8	78.1	946.3				
													78.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 212

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	76	77	83	80	77	82	80	77	83	76	80	75	946	79			1
2	83	71	75	73	85	76	79	76	78	80	75	72	923	77			2
3	64	67	65	68	67	70	76	74	73	74	74	77	849	71			3
4	72	72	65	70	78	80	84	95	97	87	90	90	980	82			4
5	91	89	96	84	88	93	91	92	90	83	95	88	1080	90			5
6	83	87	88	84	84	87	83	87	88	92	88	87	1038	86			6
7	82	81	79	84	79	73	82	87	81	83	82	87	980	82			7
8	76	80	83	80	83	88	90	97	79	85	84	85	1010	84			8
9	80	85	81	83	80	89	87	87	89	97	85	78	1021	85			9
10	77	85	92	88	93	92	99	102	96	87	92	87	1090	91			10
11	83	85	81	87	86	81	82	89	80	78	80	87	999	83			11
12	87	80	84	85	92	90	81	88	89	86	81	95	1038	86			12
13	84	84	92	84	88	86	91	90	86	90	89	89	1053	88			13
14	86	93	93	85	80	87	88	83	82	91	85	85	1038	86			14
15	86	87	84	88	87	89	91	89	92	80	79	76	1028	86			15
16	78	83	77	76	74	67	75	75	72	70	64	75	886	74			16
17	76	74	72	74	69	65	76	69	71	71	68	66	851	71			17
18	69	76	67	64	61	65	75	68	66	63	70	69	813	68			18
19	65	67	62	68	59	74	77	79	80	70	76	83	860	72			19
20	76	72	82	81	76	79	85	86	76	80	75	78	946	79			20
21	77	81	72	74	78	81	82	79	80	74	72	78	928	77			21
22	69	73	73	72	71	74	75	74	78	65	64	67	855	71			22
23	73	68	75	68	73	74	70	68	70	71	73	66	849	71			23
24	70	63	71	67	72	66	73	64	71	72	64	65	818	68			24
25	73	75	60	68	69	73	70	63	76	68	73	62	830	69			25
26	59	66	68	64	72	76	75	78	71	75	72	72	848	71			26
27	76	81	66	71	77	70	75	67	78	66	75	70	872	73			27
28	71	69	62	67	79	75	79	78	75	69	68	68	860	72			28
29	77	76	71	66	72	71	76	75	68	69	69	77	867	72			29
30	77	72	79	72	76	81	76	80	70	79	79	80	921	77			30
31	73	81	79	89	80	82	74	79	84	83	82	84	970	81			31
Sum	2369	2400	2377	2364	2405	2436	2497	2495	2469	2414	2403	2418	29047	2422	78.1	(31 days)	
Mean	76.4	77.4	76.7	76.3	77.6	78.6	80.5	80.5	79.6	77.9	77.5	78.0	937.0				
													78.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 213

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	85	80	78	74	84	78	78	80	82	95	93	88	995	83			1
2	86	86	93	79	74	96	95	91	89	94	90	89	1062	88			2
3	88	72	79	80	83	82	86	84	83	84	86	83	990	82			3
4	79	73	74	81	77	78	80	80	76	76	73	63	910	76			4
5	78	71	74	71	75	84	77	77	82	78	65	73	905	75			5
6	71	72	64	69	67	76	81	71	81	80	78	82	892	74			6
7	75	79	79	83	76	89	80	89	78	86	89	77	980	82			7
8	80	73	65	84	88	85	89	97	77	88	74	73	973	81			8
9	75	76	80	76	78	77	81	82	80	73	76	71	925	77			9
10	66	69	78	77	64	75	67	72	74	67	68	59	835	70			10
11	67	61	75	73	73	74	80	81	82	80	86	84	916	76			11
12	91	83	86	80	89	86	95	91	90	84	90	88	1053	88			12
13	76	79	86	78	85	95	91	90	90	92	89	93	1044	87			13
14	84	86	94	97	93	97	101	102	104	98	99	97	1152	96			14
15	98	99	95	99	101	97	98	95	98	91	95	101	1167	97			15
16	91	95	94	101	94	94	102	98	86	81	90	80	1106	92			16
17	78	80	79	82	85	78	97	90	86	95	77	81	1008	84			17
18	81	83	80	86	83	82	79	80	85	73	71	75	958	80			18
19	73	74	77	77	79	84			82	73	77	65	(761)	(76)^{10}			19
20	79	78	72	74	75	79	79	87	73	67	80	81	924	77			20
21	77	77	77	81	87	75	78	84	69	73	80	80	938	78			21
22	76	68	68	75	75	70	76	73	79	75	75	69	879	73			22
23	72	68	68	74	70	77	79	70	68	70	69	77	862	72			23
24	72	72	77	72	68	75	65	70	68	79	74	76	868	72			24
25	78	83	85	84	82	76	95	92	82	78	86	86	1007	84			25
26	91	87	86	87	85	73	81	90	79	101	88	90	1038	86			26
27	92	100	93	97	102	95	85	89	89	80	86	93	1101	92			27
28	92	89	84	89	90	81	81	78	80	77	86	83	1010	84			28
29																	29
30																	30
31																	31
Sum	2178	2138	2163	2203	2203	2224	2276	2283	2210	2215	2213	2192	26498	2206	81.7	(27 days)	
Mean	80.7	79.2	80.1	81.6	81.6	82.4	84.3	84.6	81.9	82.0	82.0	81.2	981.6	2282	81.5	(28 days)	
													81.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 214

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	82	81	86	85	90	88	87	84	89	81	83	81	1017	85			1
2	88	87	84	86	88	88	81	83	78	75	75	75	988	82			2
3	82	82	84	86	87	92	102	95	93	92	90	90	1075	90			3
4	93	96	86	86	85	90	81	90	86	86	79	74	1032	86			4
5	76	79	76	79	78	87	82	84	86	76	75	79	957	80			5
6	75	70	72	71	75	80	76	75	79	74	74	73	894	74			6
7	68	76	85	84	82	85	88	84	92				(744)	(83)	9		7
8					90	85	94	89	90	85	90	89	(712)	(89)	8		8
9	81	93	89	86	90	90	86	89	83	86	81	76	1030	86			9
10	75	79	86	79	82	76	83	84	71	77	75	69	936	78			10
11	83	70	76	68	72	80	81	75	77	71	81	73	907	76			11
12	78	68	65	74	76	78	76	80	72	84	78	77	906	76			12
13	78	72	71	72	75	80	82	90	87	80	88	86	961	80			13
14	68	74	74	76	74	78	89	84	74	85	67	75	918	76			14
15	74	74	73	70	80	77	74	72	74	71	73	64	876	73			15
16	75	71	70	65	72	67	64	81	69	68	73	73	848	71			16
17	70	68	66	73	77	82	72	85	83	82	73	81	912	76			17
18	75	81	67	78	77	72	76	80	78	71	65	63	883	74			18
19	75	71	72	78	68	59	65	61	66	65	65	66	811	68			19
20	64	53	66	60	67	70	67	65	68	74	69	68	791	66			20
21	74	74	68	75	76	79	89	76	80	77	69	78	915	76			21
22	72	76	77	82	77	77	84	91	86	84	84	72	962	80			22
23	74	74	77	81	79	72	72	77	80	79	74	70	909	76			23
24	75	81	65	81	76	79	77	70	74	71	75	69	893	74			24
25	80	76	77	77	74	76	77	77	74	71	72	68	899	75			25
26	66	64	83	70	71	68	76	75	71	64	78	77	863	72			26
27	66	71	74	71	72	74	79	71	78	71	70	78	875	73			27
28	75	79	85	72	79	86	86	88	89	80	85	82	986	82			28
29	86	86	80	84	88	86	85	92	85	84	74	78	1008	84			29
30	81	71	71	72	59	82	76	74	67	67	69	75	864	72			30
31	66	65	66	62	67	70	67	81	68	65	64	63	804	67			31
Sum	2207	2186	2186	2199	2231	2283	2292	2329	2265	2211	2178	2153	26720	2228	76.8	(29 days)	
Mean	76.1	754	75.4	75.8	76.9	78.7	79.0	80.3	78.1	76.2	75.1	74.2	921.2	2400	77.4	(31 days)	
													76.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 215

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	70	67	73	69	69	66	74	74	74	69	69	78	852	71			1
2	75	70	82	72	77	79	78	73	82	83	85	85	941	78			2
3	84	84	85	85	87	89	88	88	77	83	73	86	1009	84			3
4	75	81	79	73	77	75	70	83	83	81	74	75	926	77			4
5	75	67	82	81	83	73	89	83	77	75	79	84	948	79			5
6	89	84	89	84	86	82	93	82	86	81	84	79	1019	85			6
7	80	69	76	69	83	71	75	76	65	63	72	68	867	72			7
8	67	69	67	60	75	67	68	76	78	76	73	73	849	71			8
9	65	75	67	69	73	73	77	80	74	71	63	66	853	71			9
10	64	65	62	63	65	68	72	65	70	77	69	70	810	68			10
11	66	71	70	67	76	75	74	75	72	71	71	67	855	71			11
12	68	75	61	56	61	72	66	70	76	69	74	80	828	69			12
13	75	83	78	74	70	78	78	82	73	81	78	79	929	77			13
14	81	87	75	88	83	94	82	92	84	79	81	85	1011	84			14
15	88	85	79	90	89	87	87	92	85	89	79	85	1035	86			15
16	80	81	76	79	70	68	64	74	66	64	67	73	862	72			16
17	61	66	67	61	62	69	75	66	66	64	71	68	796	66			17
18	63	63	72	64	64	65	66	68	53	73	61	64	776	65			18
19	66	69	60	59	67	70	65	68	63	73	72	66	798	66			19
20	69	72	72	66	71	72	77	72	70	76	67	78	862	72			20
21	71	75	70	77	78	75	73	76	88	68	73	74	898	75			21
22	80	78	77	73	78	71	71	75	79	78	74	70	904	75			22
23	70	71	73	71	73	76	79	69	76	77	75	65	875	73			23
24	71	67	68	68	73	80	77	65	63	69	71	63	835	70			24
25	72	72	65	72	69	72	66	66	59	65	65	68	811	68			25
26	65	76	65	77	59	72	71	68	71	72	71	66	833	69			26
27	65	72	67	65	66	70	71	64	64	69	64	63	800	67			27
28	65	76	58	64	63	73	74	78	73	79	68	72	843	70			28
29	76	71	81	71	66	74	68	63	64	64	60	63	821	68			29
30	62	64	62	60	62	58	67	67	68	57	61	63	751	63			30
31																	31
Sum	2158	2205	2158	2127	2175	2214	2235	2230	2179	2196	2144	2176	2619[illegible]	2182	72.8	(30 days)	
Mean	71.9	73.5	71.9	70.9	72.5	73.8	74.5	74.3	72.6	73.2	71.5	72.5	873.1				
													72.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 216

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean				Day
1	70	64	74	70	72	75	77	73	83	68	74	69	869	72				1
2	65	68	66	67	67	67	70	71	69	64	60	53	787	66				2
3	60	56	65	64	64	58	58	66	57	69	66	67	750	62				3
4	66	78	66	63	75	86	80	82	78	73	75	73	895	75				4
5	74	71	72	64	64	73	74	67	71	74	65	59	828	69				5
6	62	67	63	65	67	72	60	61	62	71	54	62	766	64				6
7	67	56	59	58	62	69	59	71	69	69	63	72	774	64				7
8	60	62	49	54	58	60	56	61	68	67	67	65	727	61				8
9	62	55	57	63	61	64	75	71	61	59	65	65	758	63				9
10	65	64	48	55	48	64	61	66	60	62	53	63	709	59				10
11	60	70	64	58	58	52	63	65	59	51	60	48	708	59				11
12	53	55	62	56	64	69	67	59	67	53	55	51	711	59				12
13	59	65	61	55	48	65	60	63	61	63	70	55	725	60				13
14	66	62	62	68	64	73	71	64	63	66	61	62	782	65				14
15	69	66	64	54	70	60	65	52	67	59	54	54	734	61				15
16	50	49	52	59	52	53	50	53	52	49	47	55	621	52				16
17	52	60	52	51	51	58	45	56	57	49	49	53	633	53				17
18	61	56	54	52	52	55	62	51	60	67	61	60	691	58				18
19	48	58	50	47	51	56	62	62	59	63	63	56	675	56				19
20	44	55	50	62	57	60	59	64	59	62	61	59	692	58				20
21	53	57	60	64	60	63	60	67	59	59	58	66	726	60				21
22	59	65	61	63	62	69	71	70	61	69	62	58	770	64				22
23	63	68	66	55	61	60	61	66	59	59	61	68	747	62				23
24	64	67	64	70	62	69	68	70	61	68	71	69	803	67				24
25	62	62	69	61	60	61	69	73	69	62	63	62	773	64				25
26	61	53	58	49	52	59	69	68	60	66	60	61	716	60				26
27	59	52	57	70	79	61	66	68	57	58	69	60	756	63				27
28	70	63	53	58	62	73	69	73	77	73	60	61	792	66				28
29	59	64	65	64	62	54	57	64	65	64	59	56	733	61				29
30	59	57	58	62	73	61	58	69	61	61	54	59	732	61				30
31	64	57	45	55	54	51	61	55	63	47	59	58	669	56				31
Sum	1886	1902	1846	1856	1892	1970	1983	2021	1974	1944	1899	1879	23100	1920	61.9	(31	days)	
Mean	60.8	61.4	59.5	59.9	61.0	63.5	64.0	65.2	63.7	62.7	61.3	60.6	743.6					
													62.0					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 217

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean				Day
1	58	59	54	57	55	57	52	60	61	61	53	56	683	57				1
2	72	58	62	57	55	63	65	59	69	53	58	55	726	60				2
3	59	53	55	63	53	56	64	58	56	58	49	60	684	57				3
4	61	56	52	49	58	54	60	53	53	57	56	52	661	55				4
5	59	42	55	52	53	58	62	66	52	59	63	50	671	56				5
6	60	56	50	50	60	58	50	56	62	53	54	52	661	55				6
7	56	64	51	56	51	56	49	50	51	50	61	44	639	53				7
8	52	64	47	58	52	54	50	58	61	56	50	50	652	54				8
9	51	57	53	48	56	47	56	63	59	51	57	55	653	54				9
10	50	60	55	45	58	65	59	56	50	56	47	51	652	54				10
11	53	56	56	53	61	55	52	50	45	42	44	51	618	52				11
12	47	55	44	46	56	48	59	47	53	45	48	43	591	49				12
13	45	42	43	41	43	43	51	44	47	44	46	43	532	44				13
14	51	46	57	48	50	52	51	51	56	53	56	51	622	52				14
15	44	47	51	43	44	49	58	54	46	55	47	55	593	49				15
16	52	63	51	51	52	49	54	45	56	53	54	54	634	53				16
17	51	47	58	51	56	57	50	54	58	55	55	56	648	54				17
18	62	60	51	52	54	59	66	60	61	59	61	52	697	58				18
19	57	67	53	52	58	52	62	60	58	61	55	51	686	57				19
20	56	57	53	51	50	54	51	59	54	58	44	58	645	54				20
21	59	55	53	54	64	55	54	53	56	49	51	60	663	55				21
22	64	51	50	48	54	62	56	61	65	51	52	58	672	56				22
23	58	53	56	49	51	53	50	68	58	58	54	54	662	55				23
24	55	56	53	50	47	48	51	53	53	55	50	52	623	52				24
25		55	55	54	44	54	57	57	47	55	54	49	(581)	(53)	"			25
26	51	47	50	49	55	48	52	46	42	48	52	48	588	49				26
27	48	54	47	50	48	57	70	57	57	54	52	56	650	54				27
28	46	51	48	56	63	56	57	54	54	58	55	48	636	53				28
29	46	51	50	~~42~~	46	61	53	63	53	57	61	62	645	54				29
30	54	63	58	56	57	52	54	57	58	65	57	64	695	58				30
31																		31
Sum	1577	1590	1516	1477	1550	1578	1618	1615	1604	1574	1542	1541	18782	1563	53.9	(29	days)	
Mean	54.4	54.8	52.3	50.9	53.4	54.4	55.8	55.7	55.3	54.3	53.2	53.1	647.6	1616	53.9	(30	days)	
													54.0					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 218

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	64	56	51	52	60	57	58	62	55	54	49	50		668	56			1
2	54	62	55	53	49	49	57	52	60	55	59	51		656	55			2
3	55	51	55	47	47	49	54	50	45	51	46	46		596	50			3
4	50	52	50	49	41	42	44	50	56	57	52	42		585	49			4
5	38	45	41	54	43	44	58	44	51	48	51	50		567	47			5
6	45	46	43	43	49	41	48	56	62	42	48	46		569	47			6
7	48	50	49	46	56	48	49	50	46	48	51	53		594	50			7
8	52	49	40	41	43	42	41	54	43	42	42	41		530	44			8
9	51	45	52	48	43	55	37	46	52	45	43	43		560	47			9
10	45	48	44	50	45	46	43	49	43	40	39	50		542	45			10
11	44	42	43	42	46	46	45	37	47	49	47	32		520	43			11
12	40	43	48	44	46	43	47	48	50	48	41	46		544	45			12
13	44	49	47	45	41	51	51	50	51	44	49	48		570	48			13
14	43	40	38	40	36	41	47	49	51	45	31	33		494	41			14
15	35	36	38	50	40	53	45	41	43	39	34	40		494	41			15
16	47	41	38	38	48	30	55	48	41	34	42	41		503	42			16
17	48	42	38	40	39	47	34	39	39	30	36	40		472	39			17
18	43	32	39	30	35	40	40	46	37	41	47	41		471	39			18
19	34	36	30	42	35	40	44							(261)	(37)	[7]		19
20																		20
21					49	46	42	46	52	46	49	38		(368)	(46)	[8]		21
22	46	49	45	44	50	47	56	59	53	54	47	51		601	50			22
23	44	43	46	48	48	50	52	44	59	43	35	37		549	46			23
24	38	38	37	41	36	41	46	60	47	51	52	43		530	44			24
25	44	35	43	44	37	45	43	48	45	52	42	43		521	43			25
26	36	37	40	44	38	43	35	42	42	44	49	49		499	42			26
27	47	44	39	43	52	46	45	43	54	48	44	43		548	46			27
28	37	54	48	44	51	52	48	54	61	47	50	47		673	56			28
29	45	46	43	46	48	47	54	52	51	51	47	46		576	48			29
30	41	36	36	44	55	44	52	44	49	53	44	63		561	47			30
31	53	44	53	46	46	46	51	57	52	55	47	50		600	50			31
Sum	1277	1255	1239	1256	1268	1285	1335	1374	1385	1390	1264	1265		15593	1300	46.4	(28 days)	
Mean	45.6	44.8	44.2	44.9	45.3	45.9	47.7	49.1	49.5	49.6	45.1	45.2		556.9	1383	46.1	(30 days)	
														46.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 219

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	43	37	38	41	53	45	46	53	53	52	50	38		549	46			1
2	44	41	40	45	47	44	44	51	48	42	43	44		533	44			2
3	34	41	41	43	44	46	52	49	47	47	45	42		531	44			3
4	37	35	39	41	38	41	40	43	42	36	44	44		480	40			4
5	39	39	41	37	43	46	42	34	41	41	45	38		486	40			5
6	45	39	42	43	43	51	53	50	45	46	47	37		541	45			6
7	40	49	39	42	51	50	52	50	45	46	37	47		548	46			7
8	39	32	29	30	39	43	43	40	40	34	43	32		444	37			8
9	35	42	42	43	35	46	45	44	45	37	33	37		484	40			9
10	39	36	31	44	35	35	38	38	33	39	30	36		434	36			10
11	38	42	37	42	47	41	45	40	49	40	37	36		494	41			11
12	43	39	47	42	42	46	47	42	49	42	45	40		524	44			12
13	33	38	36	43	44	28	45	44	42	41	37	43		474	40			13
14	40	40	40	43	39	41	45	37	47	49	35	44		500	42			14
15	36	38	43	45	50	44	53	47	49	46	48	54		553	46			15
16	35	35	41	45	34	33	41	40	40	51	43	40		478	40			16
17	43	43	45	47	50	53	44	48	43	52	44	42		554	46			17
18	41	44	43	51	52	53	44	55	51	41	43	56		574	48			18
19	39	41	47	52	41	50	44	41	45	48	35	37		520	43			19
20	55	46	46	45	47	47	45	40	43	43	39	43		539	45			20
21	49	43	53	42	40	47	57	43	46	45	47	49		561	47			21
22	41	47	39	50	53	41	42	47	41	43	46	46		536	45			22
23	41	43	32	48	41	40	52	42	39	38	48	46		510	42			23
24	41	45	42	42	45	42	45	34	37	45	42	43		503	42			24
25	41	45	43	44	48	42	39	45	39	39	38	41		504	42			25
26	43	45	41	44	46	40	47	47	41	44	46	49		533	44			26
27	45	53	40	46	51	49	51	47	40	44	49	46		561	47			27
28	44	48	52	50	41	46	52	43	50	54	50	50		580	48			28
29	37	50	44	53	51	53	57	44	59	54	46	37		585	49			29
30	26	29	40	33	32	46	29	30	23	18	19	27		352	29			30
31	33	32	45	44	35	41	42	37	35	38	30	28		440	37			31
Sum	1239	1277	1278	1360	1357	1370	1421	1345	1347	1335	1284	1292		15905	1325	42.7	(31 days)	
Mean	40.0	41.2	41.2	43.9	43.8	44.2	45.8	43.4	43.5	43.1	41.4	41.7		513.2				
														42.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 220

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	41	37	49	36	38	37	40	43	39	36	29	48		473	39		1
2	40	42	41	34	43	38	44	42	41	41	40	39		485	40		2
3	39	39	44	44	39	38	49	35	41	37	45	36		486	40		3
4	41	39	37	32	34	30	37	32	36	44	40	33		435	36		4
5	44	36	48	37	39	33	38	42	30	33	44	46		470	39		5
6	36	36	31	36	36	32	40	42	37	47	43	39		455	38		6
7	41	51	43	41	46	49	49	43	48	52	45	54		562	47		7
8	47	51	41	37	53	42	44	53	43	48	41	40		540	45		8
9	53	44	42	47	39	38	54	57	45	46	48	50		563	47		9
10	43	51	46	55	47	56	59	57	47	51	50	60		622	52		10
11	53	57	53	54	53	52	42	58	54	54	46	46		622	52		11
12	51	60	48	51	44	46	52	51	56	44	51	55		609	51		12
13	44	50	48	45	47	46	48	50	42	47	46	41		554	46		13
14	52	42	48	50	47	53	51	47	45	44	47	49		575	48		14
15	44	48	38	54	39	48	46	49	47	39	51	48		541	45		15
16	48	56	50	52	51	51	41	45	47	49	46	55		591	49		16
17	56	54	47	54	59	56	55	54	55	47	55	59		651	54		17
18	47	56	49	49	52	58	58	51	57	49	57	56		639	53		18
19	48	54	55	49	48	48	41	53	51	50	50	50		597	50		19
20	45	53	48	52	57	54	51	57	45	58	56	50		626	52		20
21	59	48	55	45	51	47	49	55	54	48	51	43		605	50		21
22	55	48	46	43	53	55	50	53	53	50	55	52		613	51		22
23	52	52	50	49	52	49	55	56	63	59	59	67		663	55		23
24	60	55	62	60	61	63	62	67	63	65	68	65		751	63		24
25	70	69	69	62	69	70	64	63	63	62	69	63		793	66		25
26	69	65	56	65	61	58	57	58	56	50	48	60		703	59		26
27	45	47	48	51	39	47	54	51	54	54	51	46		587	49		27
28	49	49	52	46	56	54	42	44	46	39	52	51		580	48		28
29	49	49	53	61	48	54	51	49	46	58	51	50		619	52		29
30	53	55	68	50	54	59	46	54	49	46	56	40		630	52		30
31																	31
Sum	1474	1493	1465	1441	1455	1451	1469	1511	1453	1447	1490	1491		17640	1468	'48.9 (30 days)	
Mean	49.1	49.8	48.8	48.0	48.5	48.4	49.0	50.4	48.4	48.2	49.7	49.7		587.7			
														49.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 221

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	57	43	44											(144)	(48)[3]		1
2					52	46	43	50	46	41	37	53		(368)	(46)[8]		2
3	48	49	49	47	52	47	46	54	58	54	54	48		606	50		3
4	52	49	59	59	56	54	56	43	53	57	62	53		653	54		4
5	57	52	48	51	49	63	54	48	50	60	57	58		647	54		5
6	53	47	52	45	54	53	51	50	48	49	57	44		603	50		6
7	47	41	55	35	50	45	47	48	53	51	41	51		564	47		7
8	50	41	43	44	52	54	53	54	55	47	51	43		587	49		8
9	50	53	47	50	55	50	59	58	59	51	56	53		641	53		9
10	53	48	54	55	46	57	67	62	62	61	54	61		680	57		10
11	51	48	46	51	65	62	51	53	56	46	48	62		639	53		11
12	47	46	50	45	56	48	51	54	57	50	51	52		607	51		12
13	41	49	51	45	42	49	54	52	48	51	41	45		568	47		13
14	41	53	40	45	54	50	50	50	50	54	51	45		583	49		14
15	52	47	50	46	50	56	59	51	49	48	51	53		612	51		15
16	47	51	55	50	57	50	62	57	59	60	53	62		663	55		16
17	61	53	62	66	60	52	64	66	58	68	59	54		723	60		17
18	60	64	55	59	70	71	65	63	65	65	58	64		759	63		18
19	57	60	61	63	65	62	58	57	60	55	53	53		704	59		19
20	58	58	55	52	51	59	63	62	56	53	60	57		684	57		20
21	57	55	57	46	50	53	54	65	58	51	56	57		659	55		21
22	56	54	55	57	58	52	59	65	60	57	62	62		697	58		22
23	59	57	51	52	53	63	50	63	58	59	68	59		692	58		23
24	56	63	66	58	62	55	57	61	63	55	59	58		713	59		24
25	57	63	63	59	64	65	64	68	65	64	59	54		745	62		25
26	67	66	56	60	62	56	63	63	61	68	57	59		738	62		26
27	60	55	55	59	54	63	57	65	56	49	55	53		681	57		27
28	57	51	63	56	57	65	60	71	76	67	63	61		747	62		28
29	69	64	66	65	62	61	51	73	58	60	56	55		740	62		29
30	51	50	49	54	55	51	52	56	60	60	51	53		642	54		30
31	50	51	65	64	56	61	61	52	69	51	61	61		702	58		31
Sum	1564	1538	1578	1538	1617	1627	1638	1684	1680	1621	1604	1590		19179	1604	55.3 (29 days)	
Mean	53.9	53.0	54.4	53.0	55.8	56.1	56.5	58.1	57.9	55.9	55.3	54.8		664.7	1698	54.8 (31 days)	
														55.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 222

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	58	59	53	56	53	56	55	62	58	64	59	54	687	57			1
2	56	59	52	56	57	53	52	58	65	59	63	63	693	58			2
3	61	58	54	64	64	67	64	81	76	76	67	65	797	66			3
4	68	73	64	73	69	75	72	76	65	75	69	69	848	71			4
5	68	67	65	73	72	69	63	69	71	70	69	59	815	68			5
6	57	60	59	59	53	62	60	58	58	58	53	55	692	58			6
7	49	45	50	53	56	58	47	61	66	59	59	51	654	54			7
8	50	55	51	62	50	52	58	56	56	60	59	59	668	56			8
9	56	55	56	70	60	61	71	69	76	73	66	79	792	66			9
10	69	76	78	69	67	66	77	73	80	71	67	77	870	72			10
11	69	71	71	70	70	83	80	74	79	73	70	83	893	74			11
12	75	76	68	62	66	70	73	63	78	67	76	72	846	70			12
13	74	68	72	73	73	80	71	84	81	72	82	75	905	75			13
14	65	78	70	82	82	85	77	69	76	70	73	74	901	75			14
15	63	65	63	72	75	64	69	68	81	77	66	72	835	70			15
16	73	72	67	71	61	72	69	76	81	73	77	80	872	73			16
17	77	76	77	83	81	80	78	78	67	83	76	76	932	78			17
18	71	74	68	69	59	63	63	73	63	58	68	58	787	66			18
19	58	63	60	65	58	62	60	64	64	68	63	59	744	62			19
20	68	74	55	64	64	68	65	63	60	67	64	62	774	64			20
21	66	59	65	62	61	73	63	64	74	64	65	71	787	66			21
22	65	66	72	68	68	66	68	74	75	70	68	67	827	69			22
23	81	79	74	71	73	72	69	81	75	69	72	70	886	74			23
24	69	63	62	63	68	68	61	76	75	71	72	60	808	67			24
25	65	57	63	64	57	65	65	71	65	71	66	68	777	65			25
26	67	58	63	69	64	62	80	74	66	69	63	63	798	66			26
27	63	66	66	66	70	72	71	77	71	74	74	71	841	70			27
28	72	65	71	68	77	69	72	70	79	67	63	63	836	70			28
29	57	59	57										(173)	(58)[3]			29
30																	30
31																	31
Sum	1833	1837	1789	1877	1828	1893	1873	1962	1981	1928	1889	1875	22565	1880	67.1	(28 days)	
Mean	65.5	65.6	63.9	67.0	65.3	67.6	66.9	70.1	70.8	68.9	67.5	67.0	806.1	1938	66.8	(29 days)	
													67.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 223

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1943

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1					56	64	66	63	69	64	60	56	(498)	(62)[8]			1
2	58	56	55	56	59	58	61	68	63	57	57	57	705	59			2
3	62	58	59	62	62	63	62	60	57	60	69	66	740	62			3
4	60	67	68	64	58	72	69	73	76	65	62	61	795	66			4
5	54	67	69	69	60	65	70	65	75	62	69	66	791	66			5
6	71	64	60	68	68	69	72	71	67	69	68	62	809	67			6
7	69	63	61	63	71	67	73	69	58	74	71	65	804	67			7
8	61	63	57	59	60	65	67	66	63	59	58	61	739	62			8
9	60	61	61	58	56	60	62	64	64	61	67	64	738	62			9
10	59	63	70	69	66	70	70	73	73	70	79	70	832	69			10
11	76	78	78	76	73	77	73	75	79	78	75	76	914	76			11
12	76	78	72	78	80	78	86	82	80	72	76	81	939	78			12
13	75	74	80	87	79	75	88	86	75	70	88	75	952	79			13
14	73	78	81	74	80	82	83	75	84	75	79	80	944	79			14
15	79	83	75	84	80	78	77	78	79	80	82	79	954	80			15
16	74	77	78	85	79	82	90	82	82	81	82	80	972	81			16
17	77	77	79	83	79	73	81	74	87	82	80	76	948	79			17
18	79	71	75	77	69	69	72	71	78	74	71	81	887	74			18
19	68	71	66	74	63	68	75	68	67	73	68	73	834	70			19
20	77	69	73	80	82	78	75	87	81	86	71	78	937	78			20
21	76	77	77	74	75				73	77	66	82	(677)	(75)[9]			21
22	72	65	72	73	82	78	77	82	79	81	78	78	917	76			22
23	72	81	76	82	83	87	90	88	88	79	88	90	1004	84			23
24	88	85	75	94	82	85	93	91	79	76	70	71	989	82			24
25	75	72	65	75	73	71	77	75	72	80	63	66	864	72			25
26	62	69	67	61	66	72	63	76	70	65	62	64	797	66			26
27	77	64	63	56	56	69	70	67	62	72	80	68	804	67			27
28	74	71	74	67	71	70	71	75	77	80	77	79	886	74			28
29	88	77	78	82	80	78	83	69	78	85	79	81	958	80			29
30	77	81	80	82	73	74	74	81	79	78	74	75	928	77			30
31	73	79	76	78	83	74	80	90	83	72	81	81	950	79			31
Sum	2066	2062	2043	2116	2073	2107	2184	2181	2155	2116	2124	2104	25331	2111	72.8	(29 days)	
Mean	71.2	71.1	70.4	73.0	71.5	72.7	75.3	75.2	74.3	73.0	73.2	72.6	873.5	2248	72.5	(31 days)	
													72.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 224

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean		Day
1	85	76	76	78	72	83	94	82	75	80	76	67		944	79		1
2	78	70	77	73	80	75	77	76	69	62	77	79		893	74		2
3	72	64	67	71	58	75	84	82	74	67	76	77		867	72		3
4	79	73	69	73	79	73	79	78	72	72	82	72		901	75		4
5	68	66	73	61	63	63	73	72	71	71	74	76		831	69		5
6	78	80	76	77	81	83	88	83	82	90	81	86		985	82		6
7	87	85	86	78	82	81	75	86	85	79	88	86		998	83		7
8	89	81	85	84	76	75	87	84	91	85	79	85		1001	83		8
9	83	78	75	83	86	78	80	91	89	91	85	83		1002	84		9
10	83	82	76	79	85	79	85	81	82	78	76	83		969	81		10
11	72	79	79	75	84	77	73	67	81	74	81	84		926	77		11
12	78	73	78	80	83	78	79	80	81	78	79	75		942	78		12
13	79	84	78	82	78	78	78	84	75	80	78	76		950	79		13
14	75	66	70	70	71	67	84	73	74	70	69	69		858	72		14
15	72	70	63	72	59	64	76	69	74	75	77	76		847	71		15
16	79	68	79	70	75	76	75	75	75	75	82	77		906	76		16
17	77	76	65	76	75	78	76	84	76	81	82	78		924	77		17
18	75	74	68	75	71	73	79	77	71	74	75	72		884	74		18
19	78	72	71	77	68	68	78	79	80	75	74	81		901	75		19
20	78	78	77	81	88	73	76	84	86	80	72	86		959	80		20
21	73	78	68	79	79	68	76	72	68	70	69	73		873	73		21
22	75	81	73	74	74	73	69	70	78	74	73	71		885	74		22
23	64	73	75	80	81	74	75	78	79	78	80	71		908	76		23
24	81	74	72	72	78	75	76	79	81	77	72	78		915	76		24
25	72	67	63	70	65	73	63	77	71	73	67	67		828	69		25
26	67	65	54	61	62	64	65	67	65	66	72	68		776	65		26
27	75	67	72	63	67	61	72	78	66	64	59	68		812	68		27
28	66	60	58	65	64	68	79	73	64	65	63	64		789	66		28
29	69	66	70	79	73	78	81	76	83	78	76	81		910	76		29
30	79	78	80	76	82	77	87	86	75	81	77	78		956	80		30
31	80	76	81	84	80	82	84	89	96	83	83	82		1000	83		31
Sum	2366	2280	2254	2318	2319	2290	2423	2432	2389	2346	2354	2369		28140	2347	75.7 (31 days)	
Mean	76.3	73.5	72.7	74.8	74.8	73.9	78.2	78.5	77.1	75.7	75.9	76.4		907.8			
														75.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 225

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean		Day
1	81	83	88	83	81	89	81	81	82	86	80	83		998	83		1
2	90	81	78	75	93	87	78	82	85	89	83	80		1001	83		2
3	81	86	78	87	86	89	83	81	89	86	83	86		1015	85		3
4	92	86	81	80	80	87	85	86	94	83	87	80		1021	85		4
5	89	76	89	86	81	80	75	90	81	64	84	78		973	81		5
6	80	77	81	76	81	92	88	95	87	90	88	100		1035	86		6
7	95	86	95	80	82	85	94	84	82	89	90	83		1045	87		7
8	85	84	83	78	80	85	83	89	88	80	80	72		987	82		8
9	81	83	80	77	82	79	84	83	77	81	80	80		967	81		9
10	80	73	76	76	81	70	78	83	74	78	66	73		908	76		10
11	74	77	75	75	82	73	77	70	81	83	74	71		912	76		11
12	78	74	82	90	90	92	91	94	92	86	103	94		1066	89		12
13	94	90	89	93	90	83	84	89	88	75	75	81		1031	86		13
14	83	79	74	72	75	69	61	63	67	66	73	67		849	71		14
15	71	73	75	71	74	81	80	83	79	75	70	82		914	76		15
16	73	75	78	74	77	75	78	80	72	70	78	74		904	75		16
17	75	74	78	76	70	74	72	78	75	65	65	65		867	72		17
18	71	66	66	66	72	76	79	81	79	70	70	70		866	72		18
19	76	75	83	82	77	84	89	77	82	78	76	80		959	80		19
20	78	77	78	80	74	83	86	77	76	78	67	79		933	78		20
21	80	84	75	87	81	73	82	83	76	79	81	82		963	80		21
22	73	73	73	75	71	75	73	71	75	74	71	74		878	73		22
23	77	72	71	74	78	81	76	81	78	75	81	80		924	77		23
24	74	75	73	72	80	73	75	73	79	77	77	78		906	76		24
25	85	77	77	82	77	87	81	83	77	72	82	79		959	80		25
26	74	73	76	68	76	77	75	73	73	72	70	62		869	72		26
27	63	69	78	64	70	67	66	64	80	70	68	73		832	69		27
28	77	70	70	74	72	81	76	84	76	80	81	82		923	77		28
29	73	78	75	73	83	74	81	83	90	86	92	82		970	81		29
30																	30
31																	31
Sum	2303	2246	2275	2246	2296	2321	2311	2341	2334	2257	2275	2270		27475	2289	78.9 (29 days)	
Mean	79.4	77.4	78.4	77.4	79.2	80.0	79.7	80.7	80.5	77.8	78.4	78.3		9472			
														78.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 226

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	93	87	90	90	90	81	87	84	91	86	85	85		1049	87			1
2	89	82	91	87	83	86	77	85	79	83	90	86		1018	85			2
3	84	66	84	86	79	77	81	78	82	80	87	70		974	81			3
4	80	77	76	74	74	77	81	87	94	79	86	81		966	80			4
5	85	85	78	85	79	84	93	84	88	81	77	80		999	83			5
6	77	81	82	83	79	82	76	78	76	68	69	72		923	77			6
7	69	67	72	74	73	71	84	84	87	84	81	87		933	78			7
8	82	80	86	86	87	82	88	90	92	93	91	91		1048	87			8
9	84	92	88	86	92	92	90	96	92	91	93	95		1091	91			9
10	92	90	77	83	82	85	92	97	80	78	89	81		1026	86			10
11	87	81	77	72	82	84	79	78	76	76	75	72		939	78			11
12	76	71	74	72	74	74	78	79	80	71	71	80		900	75			12
13	74	78	84	76	70	75	72	73	70	80	76	69		897	75			13
14	75	66	78	70	75	66	67	75	71	73	71	70		857	71			14
15	72	74	75	66	72	74	80	73	65	70	73	80		874	73			15
16	70	70	65	62	74	74	74	73	68	78	82	70		860	72			16
17	80	74	71	69	81	86	78	82	80	81	90	77		949	79			17
18	75	70	73	71	75	73	75	74	76	81	76	76		895	75			18
19	69	76	72	78	82	83	78	75	76	76	79	71		915	76			19
20	70	74	64	81	83	70	79	69	72	78	77	77		894	74			20
21	90	76	68	77	81	79	88	78	79	83	85	85		969	81			21
22	81	72	80	89	75	74	78	68	73	66	70	68		894	74			22
23	66	68	70	67	84	66	72	76	75	69	73	80		866	72			23
24	80	83	82	79	74	81	80	81	75	83	76	76		950	79			24
25	80	78	82	78	80	80	82	73	76	70	72	84		935	78			25
26	79	78	60	61	61	62	59	54	56	52	51	49		722	60			26
27	57	59	57	64	72	63	61	55	52	57	58	57		712	59			27
28	74	72	70	69	72	67	77	66	72	67	70	62		838	70			28
29	75	78	78	74	74	74	66	66	67	66	72	64		854	71			29
30	62	67	64	76	68	71	67	71	78	75	88	80		867	72			30
31	82	93	92	92	82	78	86	85	85	78	82	83		1018	85			31
Sum	2409	2385	2360	2377	2409	2371	2425	2387	2383	2353	2415	2358		28632	2384	76.9	(31 days)	
Mean	77.7	76.9	76.0	76.7	77.7	76.5	78.2	77.0	76.9	75.9	77.9	76.1		923.5				
														77.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 227

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	79	90	76	81	82	82	79	69	69	82	68	71		928	77			1
2	76	80	72	73	62	71	77	74	84	71	78	72		890	74			2
3	71	66	77	72	78	75	82	79	77	83	80	78		918	76			3
4	81	91	84	79	88	86	84	99	96	91	76	87		1042	87			4
5	84	89	84	96	92	92	89	93	92	88	94	85		1078	90			5
6	83	89	80	81	79	86	73	75	71	77	68	81		943	79			6
7	73	72	66	69	80	70	79	68	76	63	67	64		847	71			7
8	73	63	72	71	72	73	78	70	74	72	67	68		853	71			8
9	67	60	69	69	65	58	74	64	64	63	64	61		778	65			9
10	65	58	63	65	67	67	68	63	71	65	69	69		790	66			10
11	65	66	60	67	63	59	65	74	75	66	66	65		791	66			11
12	75	64	62	71	57	74	73	70	68	76	71	81		842	70			12
13	82	76	80	83	84	84	84	89	70	83	74	66		955	80			13
14	75	70	74	72	69	74	66	76	73	75	69	65		858	72			14
15	70	63	60	73	72	70	74	73	70	71	56	77		829	69			15
16	70	72	70	78	69	66	69	79	71	66	69	68		847	71			16
17	69	71	74	75	79	73	80	86	74	72	67	69		889	74			17
18	74	68	75	74	77	71	70	78	80	72	73	85		897	75			18
19	65	75	78	78	73	70	65	70	65	70	67	70		846	70			19
20	68	72	67	73	67	61	79	64	70	83	73	71		848	71			20
21	69	62	65	62	63	67	74	70	70	57	63	61		783	65			21
22	68	73	68	72	64	67	74	73	75	68	58	59		819	68			22
23	66	71	71	59	64	64	77	66	63	68	64	66		799	67			23
24	70	56	66	67	64	62	58	69	61	68	70	66		777	65			24
25	61	78	68	72	68	75	71	67	72	65	74	71		842	70			25
26	64	74	71				70	71	71	74	65	70		(630)	(70)	9		26
27	76	69	75	75	80	77	67	75	79	74	75	72		894	74			27
28	75	84	87	85	82	85	86	86	80	85	81	70		986	82			28
29	73	79	71	78	74	77	77	79	76	70	70	67		891	74			29
30	73	70	64	72	68	63	75	64	59	61	61	60		790	66			30
31																		31
Sum	2096	2097	2078	2142	2102	2099	2167	2162	2125	2105	2032	2045		25250	2105	72.6	(29 days)	
Mean	723	72.3	71.7	73.9	72.5	72.4	74.7	74.6	73.3	72.6	70.1	70.5		870.9	2175	72.5	(30 days)	
														72.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 228

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	61	61	61	64	60	63	64	63	62	65	61	54		739	62			1
2	53	58	59	63	62	60	64	65	65	67	61	71		748	62			2
3	56	66	59	67	57	64	64	69	70	61	53	64		750	62			3
4	65	57	66	53	63	68	51	62	68	65	66	70		754	63			4
5	66	60	65	62	65	60	67	68	66	67	66	65		777	65			5
6	63	67	70	71	75	68	64	70	64	67	68	68		815	68			6
7	67	74	73	76	66	65	73	76	75	76	75	71		867	72			7
8	70	71	72	76	63	72	71	67	63	77	63	67		832	69			8
9	63	67	72	66	61	64	70	74	75	67	66	66		811	68			9
10	63	71	74	77	62	79	65	65	70	61	68	67		822	68			10
11	63	73	71	64	71	71	65	74	66	72	59	70		819	68			11
12	74	70	69	65	64	68	68	72	75	72	71	74		842	70			12
13	77	67	67	69	69	68	70	68	74	62	77	70		838	70			13
14	70	71	74	67	69	79	72	73	73	68	74	71		861	72			14
15	74	78	67	76	66	68	68	70	74	67	74	78		860	72			15
16	75	72	70	76	66	78	70	70	77	73	70	73		870	72			16
17	79	71	63	71	75	70	71	68	70	74	71	70		853	71			17
18	63	71	68	67	67	70	68	71	76	70	72	71		834	70			18
19	69	72	68	72	80	66	81	65	72	63	77	68		853	71			19
20	68	70	74	66	67	67	66	64	72	76	66	65		821	68			20
21	69	71	80	60	65	65	70	64	63	72	64	72		815	68			21
22	71	66	63	69	72	65	63	64	64	66	68	61		792	66			22
23	74	65	71	54	66	64	62	67	63	64	68	72		790	66			23
24	68	70	69	74	68	63	65	57	64	71	68	64		801	67			24
25	71	71	66	66	65	63	66	68	75	61	59	57		788	66			25
26	59	61	62	71	69	69	65	63	55	65	68	62		767	64			26
27	60	66	70	59	56	62	60	55	62	52	68	59		729	61			27
28	62	68	57	56	62	57	62	66	66	63	65	69		753	63			28
29	61	55	58	50	67	55	59	59	65	61	73	60		723	60			29
30	55	65	51	58	56	59	66	58	61	71	64	58		722	60			30
31	61	65	58	63	63	68	56	65	59	63	61	63		745	62			31
Sum	2050	2090	2067	2048	2037	2058	2046	2060	2104	2077	2084	2070		24791	2066	66.6	(31 days)	
Mean	66.1	67.4	66.7	66.1	65.7	664	66.0	66.5	67.9	67.0	67.2	66.8		799.8				
														66.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 229

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	64	60	58	53	59	65	57	60	63	65	65	59		728	61			1
2	61	69	64	73	54	60	59	67	63	64	63	68		765	64			2
3	66	69	57	59	62	68	68	62	69	68	57	67		772	64			3
4	65	65	61	70	76	61	58	69	69	67	56	56		773	64			4
5	68	55	56	61	64	63	67	62	65	61	63	53		738	62			5
6	56	60	69	65	57	59	55	56	59	60	59	60		715	60			6
7	56	62	60	58	61	65	62	66	63	63	58	68		742	62			7
8	70	68	62	68					65	70	60	59		(522)	(65)	8		8
9	66	65	56	49	59	57	70	61	59	70	66	68		746	62			9
10	54	60	60	59	64	59	66	54	62	64	62	65		729	61			10
11	70	60	64	60	71	63	67	67	68	71	59	59		779	65			11
12	67	66	62	68	61	70	59	60	56	54	57	60		740	62			12
13	58	57	60	61	59	61	63	68	66	58	51	56		718	60			13
14	59	59	56	54	62	63	59	68	70	62	65	56		733	61			14
15	61	68	59	45	60	58	65	62	63	61	59	60		721	60			15
16	57	63	61	60	58	52	61	55	55	50	59	56		687	57			16
17	56	62	58	51	51	57	59	57	60	49	48	61		669	56			17
18	62	60	59	59	60	65	64	58	66	57	58	62		730	61			18
19	48	53	58	61	63	67	62	55	64	67	61	65		724	60			19
20	64	60	67	66	72	68	65	77	82	73	74	67		835	70			20
21	71	67	68	69	63	66	62	74	62	60	58	64		784	65			21
22	60	64	58	60	58	69	60	60	56	60	63	63		731	61			22
23	58	64	54	55	54	59	63	58	57	54	55	61		692	58			23
24	54	61	59	67	62	71	65	67	66	59	60	64		755	63			24
25	58	54	61	60	64	68	60	72	66	64	63	59		749	62			25
26	52	50	58	60	67	63	66							(416)	(59)	7		26
27		55	55	52	58	61	48	61	61	56	53	47		(607)	(55)	"		27
28	55	57	58	56	54	58	66	45	56	52	62	59		678	56			28
29	56	62	57	62	57	45	48	53	55	58	57	52		662	55			29
30	65	53	60	60	57	68	57	55	56	58	56	61		706	59			30
31																		31
Sum	1635	1655	1620	1621	1642	1685	1667	1668	1696	1649	1614	1649		19801	1651	61.1	(27 days)	
Mean	60.6	61.3	600	60.0	60.8	62.4	61.7	61.8	62.8	61.1	59.8	61.1		733.4	1830	61.0	(30 days)	
														61.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 230

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	59	60	67	61	70	61	72	64	71	64	60	67		776	65			1
2	66	67	68	70	63	69	71	67	62	67	67	62		799	67			2
3	63	65	70	64	79	67	52	61	64	55	52	71		763	64			3
4	60	68	63	64	66	64	58	66	59	58	61	53		740	62			4
5	62	61	58	63	52	45	60	61	60	60	49	52		683	57			5
6	61	58	61	58	63	56	53	57	66	57	59	60		709	59			6
7	54	59	56	64	56	59	59	58	47	63	57	55		687	57			7
8	62	47	59	61	67	60	68	64	60	59	57	66		730	61			8
9	58	66	59	60	55	50	52	55	57	63	62	59		696	58			9
10	55	57	64	57	61	62	59	56	60	55	55	67		708	59			10
11	61	57	65	63	63	59	62	58	59	49	57	57		710	59			11
12	60	58	57	71	60	57	52	60	65	59	47	55		701	58			12
13	50	57	59	51	59	54	61	57	64	57	60	60		689	57			13
14	57	55	47	54	64	62	56	62	59	61	54	47		678	56			14
15	54	57	52	58	54	55	63	51	53	51	56	54		658	55			15
16	55	54	52	56	58	63	63	55	61	50	55	59		681	57			16
17	58	60	55	62	58	60								(353)	(59)	6		17
18					60	67	65	67	57	59	53	56		(484)	(60)	8		18
19	66	54	53	54	55	60	60	55	55	62	56	66		696	58			19
20	61	62	65	61	59	57	58	64	60	51	50	52		700	58			20
21	57	63	65	61	68	65	65	60	63	57	57	60		741	62			21
22	67	66	60	57	67	59	58	56	54	58	71	52		725	60			22
23	63	64	63	63	65	60	58	66	60	53	60	62		737	61			23
24	59	60	54	61	62	46	55	59	62	53	61	61		693	58			24
25	52	56	61	57	57	61	51	57	53	56	56	56		673	56			25
26	69	65	60	59	55	64	58	64	52	59	52	63		720	60			26
27	54	58	63	58	50	59	62	55	61	58	59	60		697	58			27
28	52	48	56	68	57	63	65	63	57	58	60	52		699	58			28
29	53	56	55	62	64	63	64	65	63	60	60	63		728	61			29
30	69	58	51	61	60	63	53	57	60	61	57	58		708	59			30
31	61	64	57	67	62	50	48	60	61	63	66	60		719	60			31
Sum	1720	1720	1720	1764	1771	1713	1716	1733	1728	1677	1673	1709		20644	1720	59.3	(29 days)	
Mean	59.3	59.3	59.3	60.8	61.1	59.1	59.2	59.8	59.6	57.8	57.7	58.9		711.9	1839	59.3	(31 days)	
														59.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 231

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	47	66	49	65	56	65	66	49	61	57	62	55		698	58			1
2	56	52	64	57	60	61	58	46	50	52	58	51		665	55			2
3	48	54	51	51	41	49	53	49	55	43	46	52		592	49			3
4	51	50	43	45	52	45	47	50	49	62	47	55		596	50			4
5	48	56	58	57	50	54	58	54	55	50	61	56		657	55			5
6	57	54	56	55	57	57	53	56	52	61	61	55		674	56			6
7	53	61	60	44	59	59	65	59	61	59	56	51		687	57			7
8	58	65	62	67	59	62	61	63	60	55	58	55		725	60			8
9	58	54	47			63	54	55	57	56	48	57		(549)	(55)	10		9
10	56	53	49	58	56	58	59	53	49	50	49	57		647	54			10
11	63	44	50	47	54	58	63	49	53	61	55	46		643	54			11
12	57	62	53	47	51	61	58	40	58	56	63	56		662	55			12
13	54	53	54	55	61	61	60	63	61	56	62	52		692	58			13
14	52	49	56	60	60	61	57	65	54	45	48	56		663	55			14
15	61	55	54	49	54	59	57	55	54	63	57	54		672	56			15
16	53	53	70	61	59	51	57	56	58	57	56	56		687	57			16
17	56	48	61	56	57	54	61	63	56	58	57	52		679	57			17
18	53	52	51	64	59	62	60	65	72	64	63	63		728	61			18
19	57	61	53	57	51	57	61	51	52	48	60	54		662	55			19
20	53	56	49	63	62	57	59	54	56	57	52	53		671	56			20
21	58	56	58	60	55	46	65	61	65	51	54	50		679	57			21
22	58	50	51	62	56	64	53	54	50	60	67	50		675	56			22
23	51	55	61	59	65	66	69	65	75	58	66	61		751	63			23
24	50	55	61	63	67	65	66	74	68	64	66	66		765	64			24
25	70	68	68	64	66	68				69	73	65		(611)	(68)	9		25
26	62	70	67	85	65	71	62	70	67		58	66		(743)	(68)	11		26
27	71	68	72	72	50	55	60	67	60	56	52	49		732	61			27
28		56	55	56										(167)	(56)	3		28
29		58	55	52	47				62					(274)	(55)	5		29
30									59	51	59	57		(226)	(56)	4		30
31	61	60	50	53	61	56	48	61	58	62	52	58		680	57			31
Sum	1382	1388	1396	1427	1412	1443	1474	1422	1442	1405	1428	1363		16982	1416	56.6	(25 days)	
Mean	55.3	55.5	55.8	57.1	56.5	57.7	59.0	56.9	57.7	56.2	57.1	54.5		679.3	1774	57.2	(31 days)	
														56.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 232

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	53	57	53	59	56			49	49	59	55	59		(549)	(55)	10		1
2	54	58	62	57	46	59	67	64	63	61				(591)	(59)	10		2
3	60	65	56	58	60	58	61	63	61	62	54	53		711	59			3
4	57	60	66	65	68	63	69	65	69	62				(644)	(64)	10		4
5	66	65	63	59	60	67	59	73	68	60	68	62		770	64			5
6	62	62	60											(184)	(61)	3		6
7										65	63	66		(194)	(65)	3		7
8	65	61	74	66	70	69	70	71	65	68	70	65		814	68			8
9	68	75	55	69	68	61	67	63	66	72	64	70		798	66			9
10	64	62	63	57	61	60	63	69	72	63	66	62		762	64			10
11	59	55	63	61	68	58	61	59	57	60	59	68		728	61			11
12	61	74	59	56	64	60	62	59	53	67	60	55		730	61			12
13	57	52	56	62	54	63	65	56	61	61	63	65		715	60			13
14	65	56	69	61	57	65	66	69	65	64	62	68		767	64			14
15	66	71	63	60	61	61	60	63	67	57	61	62		752	63			15
16	56	73	67	63	66	71	66	59	68	58	61	66		774	64			16
17	62	62	61	69	66	56	65	64	68	66	65	59		763	64			17
18	69	62	61	56	70	65	71	60	63	65	60	67		769	64			18
19	66	69	63	63	62	68	61	69	57	65	61	67		771	64			19
20	68	61	69	65	66	67	70	62	59	66	62	55		770	64			20
21	68	53	61	75	63	65	71	67	66	65	63	69		786	66			21
22	64	69	58	66	68	65	67	76	69	75	73	65		815	68			22
23	64	74	66	71	75	70	68	73	71	67	67	71		837	70			23
24	66	74	71	71	62	72	69	73	68	66	66	65		823	69			24
25	72	75	69	63	74	81	65	66	60	55	62	63		805	67			25
26	63	61	63	54	72									(313)	(63)	5		26
27	70				69	58	66	66	65	61	59	58		(572)	(64)	9		27
28	58	68	65	63	58	57	62	65	53	56	55	58		718	60			28
29	56	68	61	70	61	69	65	63	65	62	70	70		780	65			29
30	72	64	63	59	61	64	76	70	53	56	54	65		757	63			30
31																		31
Sum	1472	1508	1456	1463	1475	1492	1510	1512	1455	1456	1446	1470		17715	1478	64.3	(23 days)	
Mean	64.0	65.6	63.3	63.6	64.1	64.9	65.7	65.7	63.3	63.3	62.9	63.9		770.3	1909	63.6	(30 days)	
														64.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 233

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	67	60	61	63	68	54	54	56	60	71	55	63		732	61			1
2	64	68	68	66	63	66	66	57	68	70	60	67		783	65			2
3	57	61	61	62	66	75	65	70	65	62	65	66		775	65			3
4	75				56	69	59	58	57	60	55	56		(545)	(61)	9		4
5	53	58	55	53	56	51	59	49	63	54	53	56		660	55			5
6	60	54	58	54	54	63	61	54	58	52	71	62		701	58			6
7	63	58	61			61	64	65	67	61	62	64		(626)	(63)	10		7
8	62	71	77	69	79	66	76	70	67	75	78	74		864	72			8
9	74	84	69	77	86	66	78	71	79	73	73	80		910	76			9
10	83	88	79	78	75	79	80	77	75	71	74	69		928	77			10
11	66	68	70	67	70	73	72	69	73	74	74	75		851	71			11
12	56	74	62	73	65	64	75	65	65	62	56	69		786	66			12
13	62	58	69	63	63	65	55	65	65	59	58	64		746	62			13
14	67	69	63	72	74	70	67	68	69	68	65	64		816	68			14
15	70	70	71	66	73	75	68	69	68	70	65	71		836	70			15
16	62	75	74	73	64	76	70	69	74	69	74	80		860	72			16
17	69	77	67	72	73	73	72	71	74	72	71	67		858	72			17
18	74	70	66	69	74	69	63	69	65	65	66	64		814	68			18
19	63	71	58	66	58	65	56	64	57	71	65	62		756	63			19
20	60	67	65	67	66	63	75	58	57	71	63	65		777	65			20
21	60	61	58	58	69	69	66	69	67	74	74	70		795	66			21
22	73	78	87	82	70	71	79	76	71	71	74	69		901	75			22
23	72	69	77	61	72	70	77	77	76	77	76	63		867	72			23
24	77	68	72	72	78	77	76	76	77	83	73	82		911	76			24
25	82	84	83	81	75	71	68	66	64	81	73	70		898	75			25
26	69	82	73	72	74	73	72	73	74	75	84	86		907	76			26
27	85	89	85	86	82	84	79	81	75	77	79	79		981	82			27
28	75	82	78	78	68	74	83	73	75	75	70	83		914	76			28
29	82	77	86	80	77	73	86	77	64	71	80	74		927	77			29
30	70	73	74	74	75	74	69	75	72	67	77	72		872	73			30
31	77	64	72	70	67	71	68	70	63	71	68	63		824	69			31
Sum	1991	2070	2038	2024	2034	2020	2035	1984	1980	2031	2014	2029		24250	2023	69.8	(29 days)	
Mean	68.7	71.4	70.3	69.8	70.1	69.7	70.2	68.4	68.3	70.0	69.4	70.0		836.3	2147	69.3	(31 days)	
														69.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 234

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	71	70	74	69	72	82	76	78	74	71	68	81	886	74			1
2	69	77	78	79	81	76	63	67	75	83	78	75	901	75			2
3	78	70	72	77	71	74	74	71	68	83	79	69	886	74			3
4	78	75	70	79	74	76	77	74	76	79	82	82	922	77			4
5	83	82	78	74	75	79	85	82	76	89	83	87	973	81			5
6	82	83	82	77	87	93	94	82	88	80	79	80	1007	84			6
7	80	69	81	70	80	71	78	77	77	74	73	76	906	76			7
8	78	83	67	68	72	66	68	78	67	65	64	64	840	70			8
9	74	65	70	71	71	74	70	77	73	78	80	74	877	73			9
10	79	71	82	81	75	80	77	79	78	88	85	68	943	79			10
11	80	84	79	86	72	82	82	72	83	80	77	77	954	80			11
12	78	79	77	73	70	71	85	76	84	86	86	76	941	78			12
13	77	81	68	66	62	77	80						(511)	(73)[7]			13
14					69	71	75	71	81	73	71	79	(590)	(74)[8]			14
15	71	71	69	70	77	75	71	78	75	70	67	71	865	72			15
16	80	71	77	77	89	81	81	83	85	91	86	83	984	82			16
17	82	82	84	88	82	78	88	92	95	89	84	82	1026	86			17
18	81	89	83	82	85	90	87	85	89	79	81	82	1013	84			18
19	85	86	82	91	98	82	85	78	81	84	82	85	1019	85			19
20	79	80	79	86	84	82	85	84	87	84	90	86	1006	84			20
21	96	86	82	94	94	90	95	94	92	92	89	84	1088	91			21
22	83	84	85	94	94	94	93	101	87	91	86	98	1090	91			22
23	101	86	92	94	97	102	99	99	93	97	92	89	1141	95			23
24	93	86	96	90			98	91	92	89	87	87	(909)	(91)[10]			24
25	88	88	91	84	92	88	86	86	76	79	78	85	1021	85			25
26	80	76	83	86	68	78	78	80	78	70	72	75	924	77			26
27	76	78	76	77	73	82	80	84	86	83	90	81	966	80			27
28	84	70	76	83	76	84	76	79	76	65	80	81	930	78			28
29	80	72	79	82	85	78	77	88	85	81	79	78	964	80			29
30	84	76	75	80	77	86	86	95	89	89	92	86	1015	85			30
31																	31
Sum	2180	2103	2123	2172	2171	2194	2196	2219	2193	2200	2182	2155	26088	2176	80.6	(27 days)	
Mean	80.7	77.9	78.6	80.4	80.4	81.3	81.3	82.2	81.2	81.5	80.8	79.8	966.1	2414	80.5	(30 days)	
													80.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 235

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1944

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	90	94	89	93	93	90	90	96	93	96	96	90	1110	92			1
2	93	101	94	91	88	92	87	88	105	92	93	78	1102	92			2
3	93	92	84	93	82	94	92	85	89	85	80	67	1036	86			3
4	80	83	88	82	85	83	78	83	87	86	83	80	998	83			4
5	77	70	78	76	82	77	78	82	63	75	75	78	911	76			5
6	73	77	79	84	83	84	86	79	81	81	76	78	961	80			6
7	80	80	73	77	79	84	87	82	75	78	74	76	945	79			7
8	75	80	76	85	83	86	97	99	91	89	92	81	1034	86			8
9	82	84	85	86	85	83	86	92	84	85	85	91	1028	86			9
10	85	75	83	89	87	89	84	85	91	87	86	90	1031	86			10
11	82	94	86	86	86	85	75	99	80	86	93	90	1042	87			11
12	101	100	98	97	106	93	98	101	91	94	93	92	1164	97			12
13	98	90	90	92	95	97	88	93	99	94	95	100	1131	94			13
14	99	96	98	92	100	88	89	93	96	87	86	93	1117	93			14
15	88	84	87	88	88	87	75	84	79	83	75	76	994	83			15
16	68	72	72	78	75	77	71	72	76	55	56	51	823	69			16
17	65	68	73	75	79	75	77	82	77	72	65	71	879	73			17
18	66	77	79	84	83	89	81	75	71	72	81	81	939	78			18
19	81	89	79	92	96	94	93	91	99	89	88	83	1074	90			19
20	90	85	84	83	92	93	91	81	76	80	74	73	1002	84			20
21	73	69	85	78	79	81	90	84	88	85	82	79	973	81			21
22	85	81	83	79	73	78	92	87	86	79	76	80	979	82			22
23	80	74	84	73	85	67	78	63	74	78	73	72	901	75			23
24	79	71	75	67	70	72	77	79	78	70	76	77	891	74			24
25	69	74	70	79	70	75	78	74	77	71	73	72	882	74			25
26	78	79	84	77	79	85	83	83	82	82	73	66	951	79			26
27	69	72	72	78	79	71	67	74	80	76	78	71	887	74			27
28	71	77	77	74	78	79	84	79	77	78	73	78	925	77			28
29	87	87	79	80	82	71	79	80	81	77	73	81	957	80			29
30	82	82	78	76	81	81	81	71	69	79	73	87	940	78			30
31	74	72	82	73	71	69	77	70	70	67	77	72	874	73			31
Sum	2513	2529	2544	2557	2594	2569	2589	2586	2565	2508	2473	2454	30481	2541	82.0	(31 days)	
Mean	81.1	81.6	82.1	82.5	83.7	82.9	83.5	83.4	82.7	80.9	79.8	79.2	983.4				
													82.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 236

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	73	67	79	71	69	71	80	79	96	98	94	92		969	81			1
2	90	87	83	87	80	83	95	81	83	89	85	76		1019	85			2
3	88	86	94	84	80	89	93	82	83	85	84	86		1034	86			3
4	75	82	79	84	79	79	87	87	90	86	80	89		997	83			4
5	85	91	88	91	88	87	93	90	95	82	86	88		1064	89			5
6	85	91	83	86	84	86	89	94	87	81	77	85		1028	86			6
7	84	83	77	80	86	73	81	78	80	85	70	75		952	79			7
8	72	92	84	83	82	84	85	76	80	79	93	83		993	83			8
9	89	78	90	84	88	93	91	83	90	93	78	93		1050	88			9
10	84	86	90	90	93	85	89	96	89	87	92	90		1071	89			10
11	93	94	101	90	90	84	87	85	78	92	87	85		1066	89			11
12	85	85	77	74	76	78	76	76	82	85	75	78		947	79			12
13	85	75	70	68	71	74	77	71	74	80	78	76		899	75			13
14	76	76	72	78	76	80	80	77	85	76	81	67		924	77			14
15	72	79	87	86	89	81	87	73	75	77	79	79		964	80			15
16	75	87	83	83	93	88	94	84	85	79	76	80		1007	84			16
17	85	80	86	85	88	82	78	83	75	86	73	81		982	82			17
18	83	79	83	85	81	88	85	83	80	84	84	85		1000	83			18
19	83	82	86	76	85	84	64	75	83	82	84	76		960	80			19
20	87	90	82	86	82	85	82	80	75	79	79	80		987	82			20
21	79	83	82	84	78	90	91	80	86	76	83	78		990	82			21
22	77	86	81	80	79	87	87	86	82	86	84	84		999	83			22
23	89	97	87	94	91	95	94	92	97	91	89	101		1117	93			23
24	98	89	95	87	92	87	100	99	101	93	94	93		1128	94			24
25	96	89	92	95	94	86	84	91	90	89	96	96		1098	92			25
26	96	101	97	88	88	91	90	103	94	92	97	93		1130	94			26
27	91	91	90	82	84	93	87	88	84	73	76	84		1023	85			27
28	87	80	83	77	92	88	80	87	92	94	78	80		1018	85			28
29	79	85	80	90	87	85	82	92	95	91	92	98		1056	88			29
30	95	93	98	78	93	94	94	94	93	87	91	82		1092	91			30
31	93	89	93	95	100	95	95	93	96	102	98	97		1146	96			31
Sum	2629	2653	2652	2601	2638	2645	2677	2638	2675	2659	2613	2630		31710	2641	85.2	(31 days)	
Mean	84.8	85.6	85.5	83.9	85.1	85.3	86.4	85.1	86.3	85.8	84.3	84.8		1022.9				
														85.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 237

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	97	97	102	90	93	99	98	96	93	99	94	90		1148	96			1
2	99	88	95	97	93	92	91	91	98	100	96	93		1133	94			2
3	95	90	94	101	96	90	100	90	91	84	82	87		1100	92			3
4	88	82	75	76	74	87	75	81	75	88	80	82		963	80			4
5	72	91	86	79	76	76	75	88	78	85	75	84		965	80			5
6	87	73	79	74	81	78	81	79	75	77	81	79		944	79			6
7	82	82	77	88	78	87	79	86	73	83	79	84		978	82			7
8	82	84	84	86	89	90	87	81	89	87	87	95		1041	87			8
9	85	87	83	85	85	90	86	80	81	84	83	79		1008	84			9
10	73	80	75	72	78	84	76	80	76	77	79	82		932	78			10
11	79	74	78	85	66	85	83	85	86	79	84	83		967	81			11
12	84	83	92	79	81	78	86	79	84	74	73	78		971	81			12
13	74	85	76											(235)	(78)	3		13
14	88	86	80	75	84	86	94	93	88	88	86	85		1033	86			14
15	82	81	80	85	83	82	80	73	82	69	74	72		943	79			15
16	70	80	74	81	75			76	70	75	74	73		(748)	(75)	10		16
17	79	93	82	89	81	83	78	82	78	78	83	79		985	82			17
18	75	84	89	86	77	85	88	82	83	82	88	87		1006	84			18
19	88	91	90	85	93	87	89	89						(712)	(89)	8		19
20	82	80	83	81	81	80	86	80	80	79	76	86		974	81			20
21	78	82	76	75	76	73	75	83	75	73	68	74		908	76			21
22	73	73	73	71	72	75	75	75	68	62	77	79		873	73			22
23	80	80	80	83	84	87	90	90	89	85	98	78		1024	85			23
24	89	88	84	84	85	82	85	90	91	86	81	80		1025	85			24
25	86	78	70	87	81	82	87	84	82	80	85	87		989	82			25
26	82	81	84	77	82	78	73	75	83	75	77	72		939	78			26
27	74	73	80	73	72	77	75	81	81	86	82	79		933	78			27
28	84	82	80	79	73	76	78	85	81	81	85	90		974	81			28
29																		29
30																		30
31																		31
Sum	2075	2072	2061	2057	2021	2082	2081	2089	2060	2041	2053	2064		24756	2064	82.6	(25days)	
Mean	83.0	82.9	82.4	82.3	80.8	83.3	83.2	83.6	82.4	81.6	82.2	82.6		9903	2306	82.4	(28 days)	
														82.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 238

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	76	73	75	82	82	85	84	74	76	79	75	77		938	78			1
2	88	81	67	68	74	90			75	70	69	64		(746)	(75)	10		2
3	72	72	65	69	73	62	66	72	69	67	69	71		827	69			3
4	69	66	74	76	87	72	83	75	75	70	71	72		890	74			4
5	72	67	69	64	72	70	69	83	70	73	76	76		861	72			5
6	81	60	69	68	74	67	68	67	77	65	74	77		847	71			6
7	65	77	68	74	77	76	78	77	82	81	76	76		907	76			7
8	77	77	79	73	73	77	74	83	82	76	72	75		918	76			8
9	65	76	74	79	79	80	77	79	82	70	77	80		918	77			9
10	74	73	75	79	70	80	84	80	76	87	73	73		924	77			10
11	76	73	82	71	80	79	71	72	72	71	64	66		877	73			11
12	75	71	82	62	66	71	72	71	79	69	73	63		854	71			12
13	64	62	70	71	75	63	65	68	61	59	71	65		794	66			13
14	60	62	58	74	66	74	64	66	73	60	63	68		788	66			14
15	61	54	59	55	57	56	57	61	59	53	51	52		675	56			15
16	53	52	57	56	59	55	57	57	63	55	59	53		676	56			16
17	59	61	61	53	61	46	63	52	61	58	55	58		688	57			17
18	59	71	60	70	64	60	73	68	64	68	63	71		791	66			18
19	60	59	57	69	60	58	58	57	57	64	69	67		735	61			19
20	58	62	67	64	60	61	66	65	69	67	71	68		778	65			20
21	68	74	65	67	74	71	71	67	76	76	81	81		871	73			21
22	76	79	70	81	79	79	80	80	83	72	74	75		928	77			22
23	69	73	74	69	71	77	68	76	68	77	60	65		847	71			23
24	74	63	58	65	71	73	69	69	70	59	61	65		797	66			24
25	66	67	68	66	73	69	62	62	66	63	65	65		792	66			25
26	69	63	67	65	62	65	63	71	65	67	59	65		781	65			26
27	61	65	64	67	74	77	72	78	65	72	69	49		813	68			27
28	56	50	52	67	68	62	61	53	57	46	52	60		684	57			28
29	50	60	56	49	61	56	56	54	51	42	47	56		638	53			29
30	61	65	61	68	57	63	64	67	61	65	58	69		759	63			30
31	59	67	61	65	67	73	62	61	75	63	71	70		794	66			31
Sum	1985	1994	1997	2038	2092	2057	2057	2065	2084	1994	1999	2028		24391	2032	67.7	(30 days)	
Mean	66.2	66.5	66.6	67.9	69.7	68.6	68.6	68.8	69.5	66.5	66.6	67.6		813.2	2107	68.0	(31 days)	
														67.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 239

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	84	69	66	60	61	56	59	59	54	55	55	58		736	61			1
2	56	56	53	57	58	61	59	61	54	62	55	57		689	57			2
3	64	69	61	65	62	61	56	62	70	64	65	74		773	64			3
4	58	60	64	61	61	62	58	64	58	63	60	63		732	61			4
5	52	53	52	65	68	68	76	77	79	78	76	64		808	67			5
6	73	71	77	74	71	70	78							(515)	(74)	7		6
7																		7
8																		8
9					75	69	73	74	62	75	70	68		(566)	(71)	8		9
10	68	60	64	67	71	63	60	74	68	68	68	62		793	66			10
11	64	69	60	68	64	73	65	71	63	65	64	60		786	66			11
12	65	66	66	72	64	63	64	75	72	74	61	71		813	68			12
13	60	66	56	59	62	65	61	59	61	65	59	63		736	61			13
14	67	66	66	69	73	68	64	62	70	72	61	67		805	67			14
15	69	63	65	72	67	74	71	75	72	65	64	71		828	69			15
16	70	64	63	59	71	65	69	67	66	56	68	68		786	66			16
17	61	63	70	60	62	60	75	67	71	58	69	68		784	65			17
18	72	68	66	69	76	80	76	75	74	75	77	83		891	74			18
19	76	81	76	79	87	77	85	76	77	71	75	75		935	78			19
20	71	70	66	68	74	79	77	75	75	79	71	73		878	73			20
21	71	78	72	67	70	71	68	72	71	63	75	78		856	71			21
22	73	74	68	71	79	80	75	68	64	64	66	68		850	71			22
23	73	66	63	75	71	68	80	66	64	63	66	60		815	68			23
24	62	66	64	55	62	68	65	61	60	63	55	53		734	61			24
25	60	58	58	63	69	62	58	62	66	70	61	66		753	63			25
26	67	69	61	67	64	65	66	69	57	71	72	70		798	66			26
27	72	62	73	70	75	80	76	78	82	81	70	68		887	74			27
28	71	81	72	73	68	78	73	72	75	68	71	71		873	73			28
29	68	74	72	70	78	79	77	87	77	78	67	68		895	75			29
30	79	81	84	66	70	64	77	75	67	80	69	75		887	74			30
31																		31
Sum	1753	1752	1701	1727	1787	1790	1790	1809	1767	1771	1720	1754		21121	1759	67.7	(26 days)	
Mean	67.4	67.4	65.4	66.4	68.7	68.8	68.8	69.6	68.0	68.1	66.2	67.5		812.3	1904	68.0	(28 days)	
														67.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 240

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	85	85	89	85	91	78	82	77	87	80	78	85	1002	84		1
2	82	80	86	78	81	82	85	81	72	74	84	79	964	80		2
3	76	74	81	66	74	66	80	70	66	81	72	71	877	73		3
4	80	77	77	77	68	79	77	81	78	87	81	77	939	78		4
5	81	97	79	91	82	90	77	86	80	77	84	82	1006	84		5
6	79	75	73	81	83	86	82	88	83	70	79	72	951	79		6
7	74	77	70	73	74	71	69	72	74	72	72	63	861	72		7
8	76	71	73	63	66	79	72	71	62	77	74	79	863	72		8
9	75	73	78	81	76	72	69	79	72	72	71	79	897	75		9
10	72	74	66	74	77	74	76	71	77	82	80	87	910	76		10
11	80	77	74	73	70	71	74	78	66	70	69	67	869	72		11
12	61	72	58	62	56	65	70	62	67	64	61	62	760	63		12
13	61	62	66	63	66	61	57	79	67	68	60	63	773	64		13
14	68	63	65	57	60	59	66	63	63	61	61	62	748	62		14
15	51	51	62	56	61	70	60	65	67	63	54	50	710	59		15
16	64	61	66	72	73	66	70	61	69	70	58	50	780	65		16
17	61	59	58	59	67	62	68	76	60	61	61	58	750	62		17
18	65	66	59	76	72	66	61	64	70	76	72	82	829	69		18
19	70	65	77	70	76	72	69	74	70	68	76	69	856	71		19
20	58	68	59	72	65	66	71	74	69	60	73	73	808	67		20
21	66	61	62	60	62	57	62	56	63	68	61	49	727	61		21
22	51	54	52	56	62	66	57	68	69	64	65	74	738	62		22
23	71	63	72	67	67	64	66	68	75	66	74	64	817	68		23
24	70	74	77	76	75	72	79	69	80	76	72	65	885	74		24
25	71	69	65	71	58	71	71	61	73	63	75	69	817	68		25
26	67	66	73	67	62	69	73	68	69	76	77	70	837	70		26
27	66	61	63	65	68	67	64	67	62	65	63	62	773	64		27
28	72	63	71	58	70	64	53	65	58	68	63	66	771	64		28
29	57	60	61	65	61	67	70	58	60	65	64	66	754	63		29
30	68	61	77	68	74	70	67	63	67	72	67	63	817	68		30
31	69	68	72	66	66	74	68	63	69	70	67	58	810	68		31
Sum	2147	2127	2161	2148	2163	2176	2165	2178	2164	2186	2168	2116	25899	2157	69.6 (31 days)	
Mean	69.3	68.6	69.7	69.3	69.8	70.2	69.8	70.3	69.8	70.5	69.9	68.3	835.5			
													69.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 241

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	59	65	68	59	62	66	61	68	65	59	65	61	758	63		1
2	60	63	58	61	57	63	56	66	67	64	69	60	744	62		2
3	64	70	69	66	71	64	75	66	73	70	66	70	824	69		3
4	67	64	61	68	68	75	73	67	73	83	69	70	838	70		4
5	80	70	75	74	76	73	71	63	75	76	76	68	877	73		5
6	69	72	61	66	72	71	75	71	66	70	71	61	825	69		6
7	71	69	68	67	73	67	71	65	65	67	69	76	828	69		7
8	67	69	63	67	71	61	73	67	64	65	66	66	799	67		8
9	59	63	67	55	57	67	57	68	56	65	61	57	732	61		9
10	55	54	56	59	61	61	59	53	66	52	56	49	681	57		10
11	54	60	64	56	56	46	57	57	56	58	53	57	674	56		11
12	52	63	58	54	60	53	57	61	60	55	58	63	694	58		12
13	61	60	54	55	62	59	59	68	70	57	55	65	725	60		13
14	55	56	61	53	61	56	55	52	55	52	52	56	664	55		14
15	51	64	54	56	54	52	56	53	57	52	51	58	658	55		15
16	52	55	53	47	49	49	58	60	65	53	56	54	651	54		16
17	59	49	61	52	59	59	57	61	52	53	62	59	683	57		17
18	57	63	63	60	64	60	63	64	57	61	60	62	734	61		18
19	57	72	66	64	58	65	68	58	57	60	54	59	738	62		19
20	70	61	61	59	63	66	65	64	60	62	61	64	756	63		20
21	67	54	59	57	56	62	56	63	61	57	63	61	716	60		21
22	56	67	66	58	66	68	58	74	68	52	64	59	756	63		22
23	56	59	61	60	57	58	65	65	53	55	46	47	682	57		23
24	57	59	55	57	59	58	62	61	60	52	59	65	704	59		24
25	54	58	59	51	67	63	63	59	64	64	54	58	714	60		25
26	63	58	60	65	68	65	64	69	60	64	56	70	762	64		26
27	58	60	63	56	63	67	69	56	60	54	54	63	713	59		27
28	54	56	50	53	54	65	57	56	47	55	52	56	655	55		28
29	62	48	60	58	56	62	61	67	53	62	55	54	698	58		29
30	48	55	57	51	51	57	48	53	49	46	47	47	609	51		30
31																31
Sum	1794	1836	1831	1764	1841	1858	1869	1875	1834	1795	1780	1815	21892	1827	60.9 (30 days)	
Mean	59.8	61.2	61.0	58.8	61.4	61.9	62.3	62.5	61.1	59.8	59.3	60.5	7296			
													60.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 242

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	48	49	48	49	54	62	54	58	67	47	55	44	635	53			1
2	52	50	55	53	51	56	56	58	53	63	56	52	655	55			2
3	64	62	57	50	73	67	62	65	55	52	56	64	727	61			3
4	60	56	52	47	52	56	55	64	60	54	57	57	670	56			4
5	44	54	46	59	58	58	55	61	45	59	51	46	636	53			5
6	49	54	55	53	46	52	52	55	59	58	57	51	641	53			6
7	46	56	54	50	57	55	55	56	65	53	56	57	660	55			7
8	49	57	61	61	54	58	62	57	62	62	55	58	696	58			8
9	47	49	55	51	53	55	58	52	59	54	54	57	644	54			9
10	64	48	47	53	49	44	65	61	53	63	56	53	646	54			10
11	62	57	60	60	54	63	63	58	55	63	55	65	715	60			11
12	70	60	56	53	53	59	58	58	65	56	56	68	712	59			12
13	56	58	55	53	50	53	52	48	54	57	48	50	634	53			13
14	52	50	58	46	52	64	55	58	58	56	56	53	658	55			14
15	51	50	47	57	56	59	54	67	53	64	56	49	663	55			15
16	58	60	54	57	53	54	57	48	53	59	52		(605)	(55)	11		16
17																	17
18					50	58	54	58	56	59	51	45	(431)	(54)	8		18
19	52	64	48	48	53	51	54	62	51	45	53	59	640	53			19
20	54	60	50	56	58	50	58	56	53	47	53	55	650	54			20
21	60	58	50	52	61	56	52	53	52	57	54	61	666	56			21
22	65	56	52	58	54	56	52	53	57	51	50	55	659	55			22
23	64	59	55	57									(235)	(59)	4		23
24																	24
25					60	57	50	55	64	56	63	53	(458)	(57)	8		25
26	54	50	56	60	51	55	42	61	52	50	58	47	636	53			26
27	52	51	50	63	59	49	61	56	60	54	47	57	659	55			27
28	54	53	48	54	55	61	59	61	59	58	50	58	670	56			28
29	50	50	45	48	47	57	57	53	57	52	48	50	614	51			29
30	59	54	52	50	48	50	59	56	52	51	41	38	610	51			30
31	51	51	53	47	54	52	56	58	58	54	54	55	643	54			31
Sum	1355	1357	1310	1331	1352	1398	1406	1445	1414	1380	1332	1359	16439	1372	54.9	(25 days)	
Mean	54.2	54.3	52.4	53.2	54.1	55.9	56.2	57.8	56.6	55.2	53.3	54.4	6576	1597	55.1	(29 days)	
													54.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 243

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	44	55	53	52	51	48	55	55	59	57	50	59	638	53			1
2	61	51	56	50	53	47	54	61	56	54	56	51	650	54			2
3	56	52	54	55	53	52	60	61	50	56	58	58	665	55			3
4	57	64	56	53	54	54	59	52	67	56	59	52	683	57			4
5	53	58	49	58	51	55	56	58	53	46	59	50	646	54			5
6	56	58	49	48	65	64	52	54	61	45	56	57	665	55			6
7	43	51	50	54	52	53	66	52	61	57	55	61	655	55			7
8	53	54	59	62	54	61	58	61	69	53	55	69	708	59			8
9	60	62	54	55	59	63	58	61	61	69	59	58	719	60			9
10	51	51	57	51	65	66	59	57	52	62	56	60	687	57			10
11	60	53	59	55	52	63	52	59	64	60	50	56	683	57			11
12	50	52	47	50	47	51	59	51	64	54	57	57	639	53			12
13	53	53	54	47	58	52	59	55	59	52	54	59	655	55			13
14	54	63	53	58	54	46	58	59	63	55	58	55	676	56			14
15	58	60	60	51	58	58	61	66	55	68	59	55	709	59			15
16	55	64	64	48	69	67	70	64	64	70	71	63	769	64			16
17	62	64	63	51	59	56	66	58	63	62	56	68	728	61			17
18	61	47	63	63	63	66	59	72	60	55	65	57	731	61			18
19	58	62	56	61	50	58	60	55	61	55	61	61	698	58			19
20	53	47	52	61	56	56	61	60	56	61	55	59	677	56			20
21	51	61	57	56	50	46	61	59	55	52	43	51	642	54			21
22	59	50	57	44	43	50	58	53	49	55	52	53	623	52			22
23	41	45	58	54	57	62	54	69	65	69	50	60	684	57			23
24	62	53	51	53	47	49	54	52	53	58	53	51	636	53			24
25	52	42	57	45	58	63	58	69	52	55	56	57	664	55			25
26	54	44	61	56	55	50	64	61	54	49	53	65	666	56			26
27	51	52	48	57	49	44	54	49	42	44	44	43	577	48			27
28	49	49	39	46	37	55	45	57	61	50	51	54	593	49			28
29	46	52	51	44	43	59	64	55	59	60	56	52	641	53			29
30	48	56	61	66	62	59	63	64	65	58	56	57	715	60			30
31	60	51	65	57	56	60	57	65	57	63	64	50	705	59			31
Sum	1671	1676	1713	1661	1680	1733	1814	1824	1810	1760	1727	1758	20827	1735	56.0	(31 days)	
Mean	53.9	54.1	55.3	53.6	54.2	55.9	58.5	58.8	58.4	56.8	55.7	56.7	670.9				
													55.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 244

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	52	56	59	54	50	53	57	56	63	52	54	54		660	55			1
2	49	58	55	60	61	58	63	60	69	66	61	64		724	60			2
3	57	50	54	66	63	61	70	76	67	63	61	56		744	62			3
4	65	75	48	59	62	55	68	65	53	53	60	70		733	61			4
5	53	59	53	59	53	61	61	69	66	60	60	54		708	59			5
6	64	55	55	58	53	57	65	62	58	52	58	57		694	58			6
7	55	58	52	61	48	55	59	51	57	62	60	50		668	56			7
8	58	59	58	54	57	59	59	64	63	55	61	64		711	59			8
9	59	54	55	60	59	62	63	50	60	59	57	53		691	58			9
10	59	60	49	53	58	59	58	68	60	66	69	67		726	60			10
11	63	66	55	63	57	67	63	60	60	68	67	67		756	63			11
12	61	62	64	54	66	63	67	61	69	59	59	57		742	62			12
13	60	65	68	73	67	60	63	70	61	55	64	61		767	64			13
14	52	57	61	62	55	62	62	64	59	59	57	62		712	59			14
15	54	66	60	59	61	63	57	66	66	63	62	65		742	62			15
16	64	65	65	66	59	62	62	62	64	60	60	55		744	62			16
17	62	66	51	64	62	48	58	54	62	63	51	48		689	57			17
18	59	63	61	45	53	46	49	53	49	49	54	49		630	52			18
19	49	60	55	54	49	58	60	69	61	51	57	55		678	56			19
20	51	59	68	58	56	62	64	65	61	56	60	45		695	58			20
21	58	65	56	57	59	53	64	64	67	66	62	59		730	61			21
22	62	68	66	67	64	69	61	71	69	58	59	57		771	64			22
23	57	55	59	60	53	56	68	60	60	56	56	50		690	58			23
24	55	56	55	58	64	60	63	60	57	55	56	60		699	58			24
25	54	58	57	47	65	60	61	54	55	58	58	55		672	56			25
26	60	58	60	53	64	49	57	59	62	58	59	65		704	59			26
27	60	65	63	63	62	57	65	64	60	60	54	59		732	61			27
28	64	57	52	64	62	53	64	67	72	72	57	61		745	62			28
29	66	67	60	59	52	59	61	71	64	60	53	60		732	61			29
30	63	65	68	65	68	65	64	68	68	64	71	59		788	66			30
31																		31
Sum	1745	1827	1732	1775	1752	1752	1856	1883	1862	1778	1777	1738		21477	1789	59.6	(30 days)	
Mean	58.2	60.9	57.7	59.2	58.4	58.4	61.9	62.8	62.1	59.3	59.2	57.9		716.0				
														59.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 245

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}		Sum	Mean			Day
1	71	60	65	61	67	64	65	69	62	52	57	58		751	63			1
2	54	56	55	59	67	62	69	81	82	75	73	67		800	67			2
3	76	70	70	69	66	74	65	67	73	68	68	72		838	70			3
4	64	70	69	74	76	74	77	74	67	71	69	66		851	71			4
5	66	73	63	75	69	70	69	70	67	72	69	72		834	70			5
6	74	69	69	75	61	73	70	72	74	63	61	69		830	69			6
7	62	69	61	69	68	71	67	67	64	75	66	68		807	67			7
8	64	57	68	62	64	71	63	72	69	69	58	64		781	65			8
9	68	67	70	71	71	69	60	76	81	69	72	75		849	71			9
10	73	77	70	81	78	68	66	77	63	69	66	78		866	72			10
11	69	69	69	66	69	64	71	69	77	60	67	75		825	69			11
12	72	70	68	62	66	64	64	63	61	60	63	64		777	65			12
13	65	63	60	56	62	64	64	70	62	71	66	73		776	65			13
14	69	70	61	67	70	77	71	77	76	71				(709)	(71)	10		14
15																		15
16																		16
17						63	62	66	49	59	59	56		(414)	(59)	7		17
18	60	58	66	60	62	58	64	60	62	55	62	64		731	61			18
19	59	64	64	66	64	56	53	54	68	73	66	69		756	63			19
20	69	69	67	71	75	81	70	62	71	67	68	66		836	70			20
21	61	58	65	66	73	58	74	66	68	71	61	68		789	66			21
22	65	64	62	63	74	69	66	68	56	65	65	62		779	65			22
23	62	59	59	69	70	69	72	64	69	72	60	59		784	65			23
24	59	61	65	64	68	63	72	66	60	61	62	75		776	65			24
25	66	74	68	70	63	67	63	54	69	60	64	66		784	65			25
26	71	69	71	67	72	80	76	73	71	75	67	69		861	72			26
27	75	69	69	71	74	64	64	59	65	64	62	67		803	67			27
28	69	67	65	65	68	73	63	68	73	60	62	61		794	66			28
29	66	66	67	63	75	71	64	68	65	63	60	62		790	66			29
30	58	63	68	72	68	72	77	75	79	66	72	78		848	71			30
31	63	71	69	68	68	73	72	71	71	66	71	60		823	69			31
Sum	1780	1782	1782	1815	1858	1842	1820	1835	1849	1792	1757	1827		21729	1815	67.2	(27 days)	
Mean	65.9	66.0	66.0	67.2	68.8	68.2	67.4	68.0	68.5	66.4	65.1	67.7		805.2	1945	67.0	(29 days)	
														67.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 246

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Tablè--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	83	70	78	78	65	66	68	64	67	67	69	57	832	69			1
2	63	67	60	61	62	62	63	51	61	63	62	68	743	62			2
3	65	60	71	73	68	70	69	74	68	68	73	79	838	70			3
4	81	78	79	75	77	84	78	74	81	80	87	85	959	80			4
5	79	79	73	69	64	75	73	71	70	69	68	68	858	72			5
6	59	64	64	60	57	65	62	67	71	63	64	65	761	63			6
7	65	72	66	61	58	64	71	66	74	65	66	68	796	66			7
8	70	64	70	61	58	68	72	60	65	73	63	66	790	66			8
9	68	62	56	60	66	56	67	65	55	66	59	56	736	61			9
10	69	68	64	61	68	68	67	65	69	61	65	63	788	66			10
11	69	67	74	74	70	69	69	66	65	72	63	66	824	69			11
12	67	60	64	73	60	70	63	72	62	64	67	63	785	65			12
13	64	71	63	68	67	68	66	62	70	72	77	69	817	68			13
14	73	70				76	64	79	74	75	80	90	(683)	(76)	9		14
15	82	82	86	88	82	83	88	86	88	90	76	78	1009	84			15
16	73	79	71	68	71	72	67	80	75	65	59	65	845	70			16
17	71	61	61	70	65	71	70	69	66	62	63	76	805	67			17
18	71	69	77	71	73	78	70	71	77	85	66	73	881	73			18
19	67	67	77	75	68	74	77	75	71	74	71	69	865	72			19
20	81	81	81	71	78	73	77	71	74	78	73	74	912	76			20
21	75	75	73	74	77	77	64	78	71	75	78	68	885	74			21
22	75	82	71	76	78	73	75	85	77	80	90	85	947	79			22
23	85	80	91	84	93	91	92	87	89	93	102	82	1069	89			23
24	91	93	93	85	89	87	88	84	73	80	87	86	1036	86			24
25	77	80	77	78	81	77	86	80	83	79	76	83	957	80			25
26	82	80	73	82	77	73	82	79	82	78	77	71	936	78			26
27	69	75	68	71	68	84	81	80	78	81	75	72	902	75			27
28	72	75	75	73	75	84	84	69	78	86	82	77	930	78			28
29	86	88	83	81	86	78	91	87	82	96	86	81	1025	85			29
30	86	82	81	86	80	73	87	82	86	84	90	83	1000	83			30
31																	31
Sum	2145	2131	2120	2107	2081	2133	2167	2120	2128	2169	2134	2096	25531	2126	73.3	(29 days)	
Mean	74.0	73.5	73.1	72.7	71.8	73.6	74.7	73.1	73.4	74.8	73.6	72.3	880.6	2202	73.4	(30 days)	
													73.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 247

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1945

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	81	85	82	85	76	76	84	86	80	73	82	78	968	81			1
2	74	71	68	70	64	68	78	84	79	78	80	75	889	74			2
3	69	72	74	75	72	84	79	82	80	90	91	85	953	79			3
4	83	81	80	71	88	89	89	78	82	87	74	84	986	82			4
5	72	79	63	84	73	73	78	82	77	79	80	83	923	77			5
6	69	76	64	76	65	75	82	79	78	80	77	79	900	75			6
7	71	73	75	74	76	84	86	90	74	80	83	83	949	79			7
8	78	79	76	80	76	78	72	80	70	68	75	84	916	76			8
9	75	86	79	77	78	84	84	77	78	79	80	88	965	80			9
10	84	90	88	87	93	86	86	86	91	90	92	91	1064	89			10
11	95	93	89	86	78	81	79	81	94	82	91	89	1038	86			11
12	85	83	89	88	95	92	97	95	91	93	88	90	1086	90			12
13	80	88	78	83	94	91	89	84	78	77	79	70	991	83			13
14	75	84	79	77	76	87	83	83	86	76	75	81	962	80			14
15	80	76	73	78	83	83	88	89	83	85	87	79	984	82			15
16	88	85	83	79	96	88	92	96	93	88	96	92	1077	90			16
17	92	79	91	84	91	87	92	89	82	89	87	82	1045	87			17
18	83	83	82	86	83	83	91	87	80	85	78	79	1000	83			18
19	78	78	78	81	80	79	91	85	89	87	84	95	995	83			19
20	84	82	83	84	80	84	86	86	88	81	78	81	1003	84			20
21	88	86	88	90	86	87	82	83	87	88	76	85	1026	86			21
22	84	89	79	88	82	85	82	87	88	85	85	87	1021	85			22
23	92	91	88	95	97	89	84	89	81	74	78	79	1037	86			23
24	78	75	85	82	85	78	81	72	81	66	76	67	926	77			24
25	69	64	70	71	68	66	69	69	66	70	71	71	824	69			25
26	78	63	71	73							76	79	(440)	(73)	6		26
27	80	76	79	83	87	95	79	77	60	69	65	74	924	77			27
28	70	70	77	68	66	77	69	74	71	76	81	76	875	73			28
29	74	64	79	73	69	73	71	77	74	76	77	78	885	74			29
30	66	73	86	78	80	87	83	89	87	87	89	83	988	82			30
31	80	82	85	82	90	93	92	89	88	92	78	84	1035	86			31
Sum	2378	2393	2390	2415	2427	2482	2498	2505	2436	2430	2433	2448	29235	2435	81.2	(30 days)	
Mean	79.3	79.8	79.7	80.5	80.9	82.7	83.3	83.5	81.2	81.0	81.1	81.6	974.6	2508	80.9	(31 days)	
													81.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 248

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	79	80	84	82	85	81	90	85	87	85	81	84	1003	84			1
2	79	77	88	94	77	80	87	77	86	80	72	66	963	80			2
3	68	83	79	68	75	63	67	67	49	52	63	56	790	66			3
4	62	63	68	66	74	80	69	70	73	70	70	66	831	69			4
5	66	66	68	71	67	72	73	69	69	66	62	56	804	67			5
6	59	67	63	62	60	61	65	61	67	61	67	77	770	64			6
7	67	64	61	61	63	57	64	62	63	62	63	67	754	63			7
8	58	64	62	66	68	68	68	77	82	68	61	68	810	68			8
9	68	63	67	73	70	73	73	57	67	69	62	56	798	66			9
10	67	67	64	62	67	74	71	67	68	72	72	73	824	69			10
11	70	68	73	68	71	76	68	76	72	73	72	82	869	72			11
12	78	72	68	73	69	74	69	67	79	75	71	76	871	73			12
13	72	80	82	83	84	86	91	85	87	87	82	85	1004	84			13
14	85	78	79	82	76	86	85	89	82	81	78	77	978	82			14
15	80	83	80	79	78	85	79	80	85	80	79	82	970	81			15
16	80	78	80	84	88	82	81	76	72	83	75	75	954	80			16
17	87	76	78	82	78	79	87	82	86	89	90	92	1006	84			17
18	89	90	86	94	87	85	92	83			74	84	(864)	(86)	10		18
19	73	78	83	80	90	92	81	78	77	82	80	85	979	82			19
20	83	88	84	74	89	82	75	83	88	84	78	76	984	82			20
21	84	72	76	75	81	90	85	88	87	82	70	76	966	80			21
22	76	76	83	80	89	84	93	84	82	89	74	80	990	82			22
23	78	79	80	77	80	76	83	83	79	76	80	76	947	79			23
24	73	75	79	77	77	79	86	77	78	80	87	95	963	80			24
25	91	79	81	87	81	81	81	78	73	77	67	76	952	79			25
26	76	82	75	77	73	78	76	76	81	77	83	77	931	78			26
27	73	71	77	88	82	86	89	84	84	85	84	73	976	81			27
28	78	82	80	84	81	74	72	75	79	85	93	82	965	80			28
29	78	78	75	68	85	81	79	78	74	78	73	76	923	77			29
30	72	79	82	74	80	80	72	68	72	77	80	71	908	76			30
31	71	78	65	72	74	74	81	80	82	83	86	83	929	77			31
Sum	2231	2246	2264	2269	2312	2334	2340	2279	2310	2308	2255	2264	27412	2285	76.2	(30 days)	
Mean	74.4	74.9	75.5	75.6	77.1	77.8	78.0	76.0	77.0	76.9	75.2	75.5	9139	2371	76.5	(31 days)	
													76.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 249

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	84	81	89	84	84	88	88	92	88	84	86	83	1031	86			1
2	85	78	86	81	87	92	96	85	88	89	86	96	1049	87			2
3	84	98	92	95	83	84	70	80	70	76	67	69	968	81			3
4	80	69	81	67	66	73	67	74	70	76	75	74	872	73			4
5	68	69	69	65	61	65	68	46	49	45	34	39	678	56			5
6	35	34	43	38	38	42	25	38	31	35	39	37	435	36			6
7	39	44	55	57	37	25	11	8	25	17	14	18	350	29			7
8	16	3	5	0	9	22	25	42	41	31	29	22	245	20			8
9	25	19	30	26	18	20	37	35	35	35	34	38	352	29			9
10	28	36	30	26	27	29	45	40	44	46	41	40	432	36			10
11	41	41	37	38	47	36	47	48	55	49	51	54	544	45			11
12	48	59	47	47	40	48	41	56	49	45	36	37	553	46			12
13	43	41	53	48	41	47	50	50	52	49	48	39	561	47			13
14	41	46	45	48	49	52	54	61	54	49	41	40	580	48			14
15	41	35	41	43	53	53	53	40	31	32	33	32	487	41			15
16	37	33	44	39	45	39	42	38	43	40	35	33	468	39			16
17	42	56	43	53	49	48	54	52	50	49	49	54	599	50			17
18	60	53	51	53	58	53	59	64	50	49	56	43	649	54			18
19	43	41	38	45	58	60	50	52	49	53	42	41	572	48			19
20	28	35	41	32	47	49	57	38	49	57	56	50	539	45			20
21	44	40	38	37	39	52	56	59	56	51	63	54	589	49			21
22	53	51	49	46	50	55	56	61	54	51	50	54	630	52			22
23	48	52	48	47	58	62	67	58	57	70	61	58	686	57			23
24	54	45	56	57	63	65	74	66	76	72	69	70	767	64			24
25	65	58	61	70	74	72	68	74	72	67	60	59	800	67			25
26	64	60	56	67	64	68	64	62	64	59	59	55	742	62			26
27	63	52	58	56	56	56	69	58	63	59	62	59	711	59			27
28	56	53	61	52	59	56	56	61	58	65	60	52	689	57			28
29																	29
30																	30
31																	31
Sum	1415	1382	1447	1417	1460	1511	1549	1538	1523	1500	1436	1400	17578	1463	52.3	(28 days)	
Mean	50.5	49.4	51.7	50.6	52.1	54.0	55.3	54.9	54.4	53.6	51.3	50.0	627.8				
													52.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 250

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	51	51	46	48	58	50	57	45	53	46	46	44	595	50		1
2	43	50	47	50	48	46	55	55	55	59	50	55	613	51		2
3	59	60	57	59	64	62	49	44	54	56	50	48	662	55		3
4	52	45	46	46	53	44	57	50	58	48	45	53	597	50		4
5	46	44	47	54	49	64	48	52	54	55	58	51	622	52		5
6	58	51	51	58	54	48	59	56	59	48	47	49	638	53		6
7	44	46	49	48	54	65	58	62	50	51	57	47	631	53		7
8	56	50	59	51	57	56	54	65	54	62	56	49	669	56		8
9	54	56	50	65	60	59	61	61	67	63	63	58	717	60		9
10	59	48	51	43	44	48	49	44	46	50	52	56	590	49		10
11	58	54	47	60	58	55	64	52	59	64	50	47	668	56		11
12	57	44	58	55	49	49	58	57	51	55	53	50	636	53		12
13	53	47	52	56	46	58	56			61	41	44	(514)	(51)	10	13
14	44	54	52	51	50	45	54	49	48	58	58	47	610	51		14
15	47	56	52	43	52	52	62	69	52	55	58	57	655	55		15
16	52	53	56	55	56	51	53	56	57	61	64	67	681	57		16
17	60	55	66	53	60	56	67	61	65	60	60	62	725	60		17
18	50	57	54	56	57	59	66	66	70	67	67	68	736	61		18
19	66	64	58	55	61	66	75	71	72	65	59	65	777	65		19
20	63	61	59	67	59	61	66	70	64	69	69	59	767	64		20
21	61	61	59	56	56	56	67	60	52	59	51	55	693	58		21
22	56	58	54	59						59	58	52	(396)	(57)	7	22
23	51	54	52	51	66	58	62	46	62	56	43	53	654	54		23
24	55	58	46	52	57	59	56	58	55	48	40	45	629	52		24
25	51	41	43	57	54								(246)	(49)	5	25
26																26
27																27
28																28
29							38	24	30	25	26	39	(182)	(30)	6	29
30	33	42	33	28	32	32	34	35	42	35	39	37	422	35		30
31	31	48	40	43	47	41	40	41	51	44	41	43	510	42		31
Sum	1250	1262	1235	1246	1301	1282	1371	1325	1350	1334	1276	1265	15497	1290	53.8 (24 days)	
Mean	52.1	52.6	51.5	51.9	54.2	53.4	57.1	55.2	56.3	55.6	53.2	52.7	645.8	1477	52.8 (28 days)	
													53.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 251

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	41	48	46	45	49	47	55	42	41	46	44	45	549	46		1
2	42	35	50	45	35	37	39	40	26	38	37	37	461	38		2
3	44	45	39	44	41	50	53	53	48	40	44	47	548	46		3
4	47	51	50	49	54	56	41	54	51	53	54	58	618	52		4
5	57	55	51	53	60	56	62				56	62	(512)	(57)	9	5
6	62	58	61	54	64	63	68	56	73	53	60	60	732	61		6
7	59	60	66	65	63	67	72	69	55	55	61	57	749	62		7
8	57	53	54	59	64								(287)	(57)	5	8
9							65	64	62	58	62	52	(363)	(60)	6	9
10	66				58	56	64	65	51	66	66	54	(546)	(61)	9	10
11	61	59	50	61	57	57	61	67	61	58	59	65	716	60		11
12	53	53	65	58	62	70	58	61	62	58	50	54	704	59		12
13	55	57	52	58	56	65	61	62	50	61	59	52	688	57		13
14	50	44	55	54	44	58	54	58	47	48	57	46	615	51		14
15	44	49	45	41	44	48	50	45	39	41	51	48	545	45		15
16	43	49	41	57	46	51	54	51	52	52	56	57	609	51		16
17	52	57	44	47	57	52	46	55	48	51	50	47	606	50		17
18	47	52	50	50	50	50	54	47	55	54	47	50	606	50		18
19	48	58	50	47	52	58	56	64	68	64	52	47	664	55		19
20	51	57	40	50	55	51	52	53	66	54	51	59	639	53		20
21	58	54	49	54	56	53	52	56	49	54	48	49	632	53		21
22	50	48	49	44	48	57	55	57	40	46	38	35	567	47		22
23	45	44	45	50	46	54	50	42	46	44	36	45	547	46		23
24	44	40	46	39	43	48	41	55	50	49	55	51	561	47		24
25	50	56	55	52	39	49	54	58	50	52	51	44	610	51		25
26	45	52	52	51	52	55	62	57	56	55	54	52	643	54		26
27	53	55	61	54	59	66	67	62	52	56	63	58	696	58		27
28	56	50	50	51	53	51	45	58	52	56	54	54	632	53		28
29	54	46	36	40	53	49	53	52	61	47	51	43	585	49		29
30	42	49	46	43	57	54	47	53	47	45	50	46	579	48		30
31																31
Sum	1298	1326	1293	1303	1335	1416	1400	1427	1345	1330	1322	1306	16101	1342	51.6 (26 days)	
Mean	49.9	51.0	49.7	50.1	51.3	54.5	53.8	54.9	51.7	51.2	50.8	50.2	6191	1577	52.6 (30 days)	
													51.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 252

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	46	48	45	55	48	64	60	63	46	48	47	49	619	52			1
2	39	47	50	57	49	56	47	57	63	63	50	52	630	52			2
3	48	55	58	50	55	54	62	58	59	56	52	46	653	54			3
4	43	55	52	57	62	54	61	52	51	51	46	48	632	53			4
5	40	44	48	54	52	45	47	56	50	48	42	46	572	48			5
6	42	47	42	37	42	47	44	40	36	27	25	21	450	38			6
7	31	37	38	35	36	34	43	35	42	42	25	26	424	35			7
8	32	29	36	36	33	34	32	37	26	32	30	37	394	33			8
9	34	37	38	32	40	42	30	32	34	33	31	43	426	36			9
10	41	31	41	42	42	36	30	27	42	43	30	26	431	36			10
11	36	41	30	27	16	27	32	30	38	27	24	36	364	30			11
12	34	37	31	39	36	39	43	37	41	48	45	42	472	39			12
13	42	30	39	42	42	47	47	39	41	44	43	42	498	42			13
14	40	29	42	41	41	38	43	31	40	34	36	37	452	38			14
15	35	39	35	37	37	40	48	38	40	41	30	33	453	38			15
16	25	31	34	34	33	27	37	31	34	40	35	43	404	34			16
17	36	37	40	39	47	46	46	34	49	34	39	37	484	40			17
18	41	37	39	31	38	44	33	43	43	45	53	48	495	41			18
19	41	38	44	44	38	39	44	46	49	44	42	36	505	42			19
20	38	49	34	39	41	37			43	51	36		(368)	(41)	8		20
21																	21
22					44	34	49	43	45	50	47	34	(346)	(43)	8		22
23	49	42	40	46	38	38	46	37	44	35	38	34	487	41			23
24	32	42	36	37	32	34	37	44	42	43	34	43	456	38			24
25	35	36	34	41	40	34	37	35	41	36	44	40	453	38			25
26	36	43	45	36	49	44	42	36	44	45	41	42	503	42			26
27	32	35	41	43	45	52	43	51	51	45	42	41	521	43			27
28	54	55	45	53	39	69	58	47	52	45	47	44	598	50			28
29	63	50	52	49	52	57	52	54	54	40	44	45	612	51			29
30	44	45	42	37	46	47	54	46	47	38	42	40	528	44			30
31	45	37	39	46	49	40	41	39	33	38	40	41	488	41			31
Sum	1116	1134	1156	1177	1177	1218	1239	1175	1232	1165	1097	1118	14004	1169	41.8	(28 days)	
Mean	39.9	40.5	41.3	42.0	42.0	43.5	44.2	42.0	44.0	41.6	39.2	39.9	500.1	1253	41.8	(30 days)	
													41.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 253

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	33	33	38	42	46	40	52	45	43	36	43	45	496	41			1
2	44	39	37	31	44	39	45	58	40	45	41	50	513	43			2
3	45	34	42	45	44	46	48	45	54	52	52	54	561	47			3
4	45	45	41	50	44	46	48	51	48	50	38	52	558	46			4
5	52	48	58	48	55	61	49	51	54	52	52	48	628	52			5
6	43	47	39	35	46	42	46	55	46	47	36	39	521	43			6
7	33	26	25	27	32	28	30	24	21	22	25	34	327	27			7
8	27	26	33	24	22	30	33	26	36	33	30	25	345	29			8
9	30	24	32	30	26	28	32	36	33	38	42	34	385	32			9
10	41	30	39	32	45	42	34	46	31	33	37	39	449	37			10
11	42	38	33	29	31	30	33	39	34	33	30	32	410	34			11
12	27	33	23	19	32	31	35	35	38	31	37	40	381	32			12
13	34	29	29	35	32	38	32	50	29	36	39	40	423	35			13
14	42	31	39	38	37	35	38	43	45	50	46	40	484	40			14
15	37	33	41	38	40	46	46	47	42	35	43	40	488	41			15
16	42	41	47	44	47	40	51	46	46	48	42	43	537	45			16
17	38	30	41	31	44	39	46	40	43	43	44	50	489	41			17
18	33	31	32	35	38	29	33	36	39	46	44	38	434	36			18
19	36	32	33	29	42	40	35	38	44	36	42	38	445	37			19
20	40	25	22	33	28	39	30	33	30	31	27	45	383	32			20
21	30	23	17	32	32	32	28	32	33	32	28	21	340	28			21
22	21	29	26	25	20	23	26	29	29	35	34	29	326	27			22
23	43	37	39	33	44	39	36	38	41	36	37	43	466	39			23
24	40	34	23	35	30	35	32	40	39	40	31	35	414	34			24
25	34	34	35	29	32	37	40	41	34	36	37	44	433	36			25
26	29	34	31	38	36	45	39	36	44	40	33	38	443	37			26
27	40	42	37	39	44	48	47	44	42	44	38	35	500	42			27
28	32	36	29	30	24	39	39	32	30	36	33	28	388	32			28
29	28	25	30	33	39	36	28	40				29	(288)	(32)	9		29
30	36	30	33	38	34	36	41	30	29	32	36	35	410	34			30
31																	31
Sum	1069	974	994	994	1077	1103	1124	1166	1117	1128	1097	1134	12977	1079	37.2	(29 days)	
Mean	36.9	33.6	34.3	343	37.1	38.0	38.8	40.2	38.5	38.9	37.8	39.1	4475	1111	37.0	(30 days)	
													37.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 254

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	38	40	41	40	40	40	40	36	35	32	39	36	457	38			1
2	30	37	35	30	33	36	40	35	29	29	30	28	392	33			2
3	32	31	32	28	26	30	33	27	27	32	35	35	368	31			3
4	30	30	29	40	30	36	27	33	28	32	35	30	380	32			4
5	43	28	28	32	25	28	36	14	29	28	32	29	352	29			5
6	35	35	30	28	35	35	36	29	32	28	27	34	384	32			6
7	24	24	22	36	34	34	29	29	30	28	30	22	342	28			7
8	34	33	40	30	30	31	34	39	29	33	28	23	384	32			8
9	30	30	31	32	34	29	31	29	30	32	32	31	371	31			9
10	28	27	25	33	36	30	26	32	37	35	29	25	363	30			10
11	32	33	33	34	39	32	34	40	39	35	37	31	419	35			11
12	29	32	32	39	27	46	49	41	39	39	46	43	462	38			12
13	31	37	24	29	44	38	48	36	31	48	44	35	445	37			13
14	30	26	30	32	38	37	39	48	45	37	34	32	428	36			14
15	32	39	34	27	38	35	42	44	39	37	40	45	452	38			15
16																	16
17					32	32	35	33	36	22	36	30	(256)	(32)	8		17
18	28	44	30	35	35	34	28	32	35	27	30	29	387	32			18
19	25	18	29	31	31	27	40	29	26	32	37	35	360	30			19
20	28	30	28	38	30	30	38	33	22	36	35	35	383	32			20
21	38	37	32	34	36	33	39	37	34	40	33	39	432	36			21
22	32	31	37	27	30	31	49	31	40	33	35	38	414	34			22
23	35	28	23	32	28	37	32	30	25	21	14	22	327	27			23
24	28	27	18	25	32	25	28	25	30	25	23	28	314	26			24
25	28	30	36	24	26	32	181	179	129	94	69	58	886	74			25
26	56	46	43	48	52	41	49	49	36	29	31	14	494	41			26
27	-12	-25	-31	-24	-41	-43	-27	-32	-32	-34	-37	-25	-363	-30			27
28	-19	-18	-23	-9	-11	-9	-4	-20	-12	-7	-3	-6	-141	-12			28
29	-10	3	-8	-10	8	10	3	0	-8	4	-13	-14	-35	-3			29
30	6	-3	7	1	8	0	8	1	18	5	3	5	59	5			30
31	5	7	11	11	11	20	10	12	18	16	12	16	149	12			31
Sum	746	737	698	753	784	785	1018	918	860	826	787	753	9665	804	27.7	(29 days)	
Mean	25.7	25.4	24.1	26.0	27.0	27.1	35.1	31.7	29.7	28.5	27.1	26.0	3334	836	27.9	(30 days)	
													27.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 255

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	22	18	16	12	13	19	27	17	17	21	14	12	208	17			1
2	25	20	23	26	12	18	26	30	28	30	19	27	284	24			2
3	24	22	18	13	19	19	22	28	18	20	31	37	271	23			3
4	27	18	20	16	21	22	30	28	17	19	29	28	275	23			4
5	21	33	24	22	25	23	35	25	21	26	20	29	304	25			5
6	26	24	31	31	39	27	32	25	21	25	34	31	346	29			6
7	33	30	25	27	31	34	44	38	31	35	32	29	389	32			7
8	22	28	25	27	25	38	41	32	28	40	29	36	371	31			8
9	28	31	28	25	27	28	34	28	31	26	38	20	344	29			9
10	31	28	25	30	27	29	32	34	26	33	39	39	373	31			10
11	33	42	29	26	31	30	41	28	42	39	49	32	422	35			11
12	36	36	34	32	36	34	34	40	33	40	36	30	421	35			12
13	41	35	35	27	29	33	36	35	25	35	33	28	392	33			13
14	28	35	37	31	35	31	36	21	29	26	41	24	374	31			14
15	30	24	24	27	21	25	20	39	28	30	23	29	320	27			15
16	27	26	30	25	32	26	22	28	23	32	23	24	318	27			16
17	19	18	22	26	25	26	35	35	31	33	34	27	331	28			17
18	31	24	37	20	23	42	39	36	35	31	40	35	393	33			18
19	29	36	28	32	35	33	35	38	33	36	33	38	406	34			19
20	29	36	42	40	37	37	43	37	49	34	44	37	465	39			20
21	38	44	38	43	44	41	43	54	48	50	53	42	538	45			21
22	41	48	41	42	46	41	46	45		42	26	36	(454)	(41)	"		22
23	37	38	38	36	44	46	48	41	48	50	51	42	519	43			23
24	39	42	38	42	37	46	45	45	46	53	39	48	520	43			24
25	39	40	41	37	35	35	34	45	35	51	40	44	476	40			25
26	35	37	32	41	41	46	53	43	37	39	39	41	486	40			26
27	42	42	41	36	35	46	39	39	42	40	32	36	470	39			27
28	41	30	31	27	36	47	42	40	43	47	38	36	458	38			28
29	38	40	35	40	37	37	46	47	39	40	48	43	490	41			29
30	40	48	39	47	39	42	46	46	49	42	52	43	534	44			30
31	43	42	41	44	33	42	34	38	40	40	36	33	466	39			31
Sum	954	967	927	908	924	1002	1094	1060	995	1063	1069	1000	11963	998	33.3	(30 days)	
Mean	31.8	32.2	30.9	30.3	30.8	33.4	36.5	35.3	33.2	35.4	35.6	33.3	3987	1039	33.5	(31 days)	
													33.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 256

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	31	39	32	35	37	40	35	46	41	37	31	30		434	36		1
2	36	41	37	34	45	40	44	40	40	44	44	42		487	41		2
3	46	49	47	52	49	54	49	55	44	54	51	39		589	49		3
4	47	40	57	48	50	59	44	57	48	54	45	38		587	49		4
5	43	51	27	29	38	36	50	48	34	38	41	29		464	39		5
6	42	36	41	27	40	32	32	41	32	42	40	39		444	37		6
7	35	39	39	36	39	40	39	39	38	33	46	35		458	38		7
8	38	40	41	35	34	40	50	48	45	40	45	38		494	41		8
9	37	33	34	30	34	36	42	42	34	47	40	43		452	38		9
10	43	38	46	44	33	45	47	45	48	50	50	49		535	45		10
11	43	38					54	55	52	57	49	50		(398)	(50)	8	11
12	53	55	54	40	48	48	57	47	47	47	45	54		595	50		12
13	48	53	46	49	44	52								(292)	(49)	6	13
14																	14
15																	15
16								50	48	47	54	44		(243)	(49)	5	16
17	37	34	34			37	37	36	34	40	50	42		(381)	(38)	10	17
18	35	35	37	30										(136)	(34)	4	18
19																	19
20									27	27	19	28		(101)	(25)	4	20
21	29	35	29	10	22	24	33	27	27	20	25	18		299	25		21
22	21	23	20	17	3	15	2	-2	-7	-3	2	3		94	8		22
23	10	2	-3	10	11	11	9	9	9	10	16	8		102	8		23
24	13	15	19	9	12	19	15	15	23	21	20	21		202	17		24
25	16	25	20	26	19	26	19	18	22	28	20	34		273	23		25
26	28	41	33	33	27	32	32	23	33	26	33	28		369	31		26
27	35	26	36	27	20	30	22	28	31	24	29	28		336	28		27
28	29	29	31	22	25	27	26	29	32	27	27	41		345	29		28
29	29	30	37	40	33	35	38	37	41	44	32	41		437	36		29
30	33	36	37	42	42	45	47	55	49	50	60	52		548	46		30
31																	31
Sum	694	723	714	646	661	734	732	747	708	733	742	710		8544	714	34.0 (21 days)	
Mean	33.0	34.4	34.0	30.8	31.5	35.0	34.9	35.6	33.7	34.9	35.3	33.8		4070	959	35.5 (27 days)	
														33.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 257

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	46	54	48	57	51	46	55	46	61	50	50	47		611	51		1
2	50	38	41	42	38	40	47	44	46	50	52	41		529	44		2
3	38	42	34	50	39	28	50	44	40	35	37	43		480	40		3
4	41	32	40	31	33	42	51	40	40	52	48	40		490	41		4
5	42	44	43	31	42	42	43	41	51	40	44	46		509	42		5
6	42	40	42	36	36	41	32	50	37	46	37	45		484	40		6
7	30	41	36	31	35	39	39	41	48	42	43	38		463	39		7
8	42	44	43	42	50	42	41	58	39	50	42	46		539	45		8
9	50	52	51	48	48	44	45	43	44	45	49	46		565	47		9
10	48	39	42	40	34	42	47	50	41	45	35	38		501	42		10
11	40	36	36	33	39	41	36	39	44	45	32	28		449	37		11
12	46	39	32	31	42	36	27	40	42	44	37	39		455	38		12
13	46	36	38	46	38	45	43	43	52	43	42	49		521	43		13
14	45	50	37	36	41	42	44	54	46	46	48	53		542	45		14
15	45	37	38	45	46	48	46	42	48	42	37	28		502	42		15
16	41	37	42	41	42	49	42	45	40	38	42	38		497	41		16
17	47	46	44	42	44	46	41	38	39	36	48	35		506	42		17
18	38	35	41	40	45	43	45	47	51	56	42	45		528	44		18
19	46	52	42	54	52	43	49	47	52	55	55	63		610	51		19
20	48	48	39	44	48	54	53	47	37	52	44	41		555	46		20
21	42	47	53	44	46	52	46	36	38	32	40	46		522	44		21
22	42	41	49	44	45	47	42	37	45	45	39	47		523	44		22
23	40	43	45	45	37	47	39	46	42	43	43	41		511	43		23
24	46	51	48	41	47	46	36	41	45	45	43	39		528	44		24
25	45	54	46	38	47	50	50	48	49	53	50	49		579	48		25
26	48	46	38	48	52	50	48	53	44	47	45	52		571	48		26
27	44	35	35	39	45	34	35	38	44	42	39	40		470	39		27
28	38	51	48	41	51	46	49	46	45	59	42	46		562	47		28
29	48	46	40	47	52	50	44	45	53	46	51	53		575	48		29
30	57	55	44	49	49	49	45	45	48	42	41	44		568	47		30
31	41	43	45	35	34	38	44	38	41	41	49	40		489	41		31
Sum	1362	1354	1300	1291	1348	1362	1354	1372	1392	1407	1346	1346		16234	1353	43.6 (31 days)	
Mean	43.9	43.7	41.9	41.6	43.5	43.9	43.7	44.3	44.9	45.4	43.4	43.4		5236			
														43.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 258

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	46	45	42	50	53	47	46	49	47	37	42	46	550	46			1
2	47	41	43	43	52	46	50	50	47	45	44	48	556	46			2
3	47	47	39	43	44	54	47	50	40	41	52	42	546	46			3
4	48	42	54	43	52	55	48	43	62	48	54	51	600	50			4
5	60	60	56	61	49	62	53	60	49	49	48	47	654	54			5
6	38	46	49	51	43	50	45	52	49	46	45	36	550	46			6
7	55	43	41	51	39	42	46	44	54	50	44	46	555	46			7
8	44	52	42	47	48	50	56	57	48	62	50	52	608	51			8
9	49	52	50	54	47	50	52	48	52	49	49	37	589	49			9
10	47	40	46	39	40	43	47	43	46	45	47	44	527	44			10
11	44	40	43	41	37	40	43	42	42	49	42	49	512	43			11
12	39	56	48	60	55	53	58	62	56	60	51	48	647	54			12
13	61	59	58	59									(237)	(59)	4		13
14																	14
15					56	65	66	55	60	34	40	45	(421)	(53)	8		15
16	41	44	42	40	54	41	40	42	36	31	42	45	498	42			16
17	46	49	45	43	48	49	46	52	43	43	45	66	575	48			17
18	49	57	63	66	55	60	55	54	52	58	46	56	671	56			18
19	55	64	57	61	56	55				39	40	41	(468)	(52)	9		19
20	60	50	54	56	54	56	53	55	56	50	41	48	633	53			20
21	54	61	54	57	56	50	55	52	49	48	54	52	642	54			21
22	51	64	55	49	61	62	62	61	50	60	56	65	695	58			22
23	69	62	60	62	61	60	59	62	64	60	62	56	737	61			23
24	54	53	45	51	52	45	39	40	45	43	45	37	549	46			24
25	43	37	49	51	37	45	40	50	45	47	47	50	541	45			25
26	39	47	45	41	45	53	43	52	50	35	44	49	543	45			26
27	57	53	54	61	61	56	54	53	57	55	55	60	676	56			27
28	61	76	60	50	67	57	56	56	54	54	54	58	703	59			28
29	64	62	55	56	55	61	64	70	59	51	62	61	720	60			29
30	67	62	70	53	61	58	55	56	54	49	50	60	695	58			30
31																	31
Sum	1319	1341	1304	1319	1326	1345	1312	1355	1306	1265	1271	1309	15772	1316	50.6	(26 days)	
Mean	50.7	51.6	50.2	50.7	51.0	51.7	50.5	52.1	50.2	48.7	48.9	50.3	606.6	1480	51.0	(29 days)	
													50.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 259

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1946

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	60	60	78	61	59	55	57	67	62	62	65	67	753	63			1
2	72	69	75	68	64	76	64	71	65	64	65	68	821	68			2
3	74	66	72	62	58	72	75	75	78	78	68	69	847	71			3
4	78	75	75	66	69	71	81	72	70	66	59	62	844	70			4
5	66	68	61	65	65	70	70	70	65	58	63	53	774	64			5
6	62	73	74	67	63	73	70	72	69	71	69	74	837	70			6
7	73	65	65	68	74	68	62	68	68	69	68	73	821	68			7
8	62	73	68	60	59	71	66	64	68	58	70	69	788	66			8
9	68	62	61	69	58	62	58	56	62	73	68	65	762	64			9
10	52	58	59	58	59	61	65	67	65	67	78	79	768	64			10
11	64	64	72	67	49	69	73	71	66	65	60	72	791	66			11
12	67	66	58	55	56	60	58	61	57	51	55	66	710	59			12
13	64	54	67	63	68	71	74	69	64	73	70	67	804	67			13
14	75	69	65	72	58	68	69	69	68	66	72	73	824	69			14
15	71	67	67	69	76	74	74	76	76	77	68	70	865	72			15
16	68	64	51			53	54	55	60	60	65	64	(594)	(59)	10		16
17	67	68	61	57	54	54	63	60	66	58	74	67	749	62			17
18	68	67	80	74	71	74	74	71	75	62	78	71	865	72			18
19	65	69	74	68	78	69	66	69	64	68	64	74	828	69			19
20	59	62	66	58	50	63	48	65	59	56	54	57	697	58			20
21	54	60	56	68	66	65	61	67	63	60	61	58	739	62			21
22	75	73	70	70	71	72	79	75	73	69	72	67	866	72			22
23	63	64	67	76	63	56	65	63	61	60	57	63	758	63			23
24	65	62	67	75	68	75	68	71	62	67	57	64	801	67			24
25	69	81	78	83	76	86	86	79	84	68	73	74	937	78			25
26	66	65	62	73	60	68	67	58	62	63	65	68	777	65			26
27	76	71	59	57	66	56	69	54	57	62	55	53	735	61			27
28	56	58	52	59	61	61	55	58	51	54	54	59	678	56			28
29	58	50	60	58	50	55	50	55	49	66	52	63	666	56			29
30	61	64	66	67	65	71	60	63	64	60	66	64	771	64			30
31	62	68	58	65	65	61	70	64	61	54	60	53	741	62			31
Sum	1972	1971	1993	1978	1899	2006	1997	2000	1954	1925	1940	1982	23617	1968	65.6	(30 days)	
Mean	65.7	65.7	66.4	65.9	63.3	66.9	66.6	66.7	65.1	64.2	64.7	66.1	787.3	2027	65.4	(31 days)	
													65.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 260

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	68	52	59	61	54	65	60	67	57	55	49	53	700	58			1
2	47	48	57	46	45	54	56	53	49	52	41	45	593	49			2
3	50	45	53	58	59	57	63	70	65	59	46	60	685	57			3
4	66	55	65	66	72	66	73	69	60	52	45	49	738	62			4
5	49	56	64	65	60	61	64	57	55	57	60	64	712	59			5
6	62	68	59	67	60	72	66	64	66	70	59	65	778	65			6
7	71	61	66	59	61	62	65	66	69	66	61	61	768	64			7
8	73	70	66	72	73	74	73	67	63	69	72	74	846	71			8
9	74	77	80	84	81	88	84	85	82	78	72	78	963	80			9
10	83	70	72	78	85	84	78	80	84	84	74	72	944	79			10
11	83	70	76	78	73	79	78	76	79	78	70	70	910	76			11
12	71	77	66	61	78	64	82	76	70	72	73	70	860	72			12
13	73	70	70	68	75	84	74	67	73	80	70	64	868	72			13
14	74	60	61	66	65	58	70	62	65	65	59	68	773	64			14
15	68	66	64	65	73	69	74	62	62	60	67	68	798	66			15
16	58	59	55	58	55	55	56	56	60	63	67	57	699	58			16
17	69	70	77	64	60	67	70	67	66	67	74	66	817	68			17
18	58	70	60	68	70	64	67	58	71	69	68	74	797	66			18
19	73	69	73	68	74	75	69	71	77	65	73	65	852	71			19
20	70	58	62	59	64	65	73	74	72	80	76	75	828	69			20
21	84	71	82	84	87	80	80	90	74	95	87	86	1000	83			21
22	83	97	94	83	81	82	80	99	81	87	78	87	1032	86			22
23	88	81	83	77	78	77	86	73	65	70	67	69	914	76			23
24	62	68	58	69	70	68	64	64	60	63	60	50	756	63			24
25	47	52	53	58	71	62	69	55	63	57	64	62	713	59			25
26	62	66	71	68	65	63	73	66	67	69	65	63	798	66			26
27	68	60	68	66	58	61			51	56	55	60	(603)	(60)	10		27
28	51	48	60	56	61	54	57	59	62	65	55	63	691	58			28
29	64	63	60	61			54	52	55	46	50	56	(561)	(56)	10		29
30	56	49	48	56	52	56	53	53	49	54	58	53	637	53			30
31	56	61	63	68	68	62	68	65	53	56	59	60	739	62			31
Sum	1929	1864	1917	1930	1970	1967	2025	1971	1919	1957	1869	1891	23209	1932	66.6	(29days)	
Mean	66.5	64.3	66.1	66.6	67.9	67.8	69.8	68.0	66.2	67.5	64.4	65.2	800.3	2048	66.1	(31 days)	
													66.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 261

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	57	60	63	70	64	60	68	70	67	61	74	75	789	66			1
2	70	73	77	73	85	77	87	85	83	78	70	78	936	78			2
3	77	74	66	72									(289)	(72)	4		3
4																	4
5						94	92	95	94	88	93	91	(647)	(92)	7		5
6	91	89	85	90	79	85	88	81	74	80	83	66	991	83			6
7	76	77	76	78	72	73	86	84	86	81	86	80	955	80			7
8	78	78	75	78	87	82	86	77	80	85	87	75	968	81			8
9	89	89	93	88	89	83	82	81	87	82	83	75	1021	85			9
10	82	80	85	76	82	74	75	82	84	74	81	71	946	79			10
11	85	72	76	71	68	73	80	65	78	69	63	67	867	72			11
12	62	70	67	60	59	56	68	64	68	71	67	65	777	65			12
13	62	63	66	64	63	69	72	66	61	69	64	54	773	64			13
14	72	65	65	76	61	57	65	64	56	66	61	65	773	64			14
15	66	68	67	70	74	68	62	72	78	76	77	73	851	71			15
16	71	69	75	74	76	74	78	74	79	70	70	73	883	74			16
17	80	78	78	70	68	70	71	77	65	68	76	73	874	73			17
18	68	75	67.	66	69	68	76	72	71	59	77	72	840	70			18
19	68	69	71	68	75	72	72	78	67	80	64	76	860	72			19
20	69	69	76	80	75	74	71	73	78	78	74	72	889	74			20
21	78	83	75	78	81	86	92	84	87	90	85	76	995	83			21
22	89	78	80	90	83	94	89	88	91	88	90	87	1047	87			22
23	80	82	78	88	92	79	86	86	89	84	82	97	1023	85			23
24	95	91	89	92	94	93	94	97	85	88	88	94	1100	92			24
25	87	87	84	89	78	81	79	78	86	87	81	83	1000	83			25
26	82	81	82	86	79	83	84	84	87	79	76	83	986	82			26
27	83	88	84	99	84	94	88	92	91	77	99	86	1065	89			27
28	83	79	78	79	84	80	86	91	80	83	83	77	983	82			28
29																	29
30																	30
31																	31
Sum	1923	1913	1912	1953	1921	1905	1985	1965	1958	1923	1941	1893	23192	1934	77.4	(25days)	
Mean	76.9	76.5	76.5	78.1	76.8	76.2	79.4	78.6	78.3	76.9	77.6	75.7	927.5	2098	77.7	(27 days)	
													77.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 262

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	76	80	69	78	78	79	85	81	78	70	79	82		935	78			1
2	71	79	76	77	80	79	72	81	81	82	84	79		941	78			2
3	87	88	79	79	93	78	78	78	82	85	77	72		976	81			3
4	71	74	79	70	73	71	81	70	86	71	69	68		883	74			4
5	76	67	71	73	71	73	78	65	69	61	65	60		829	69			5
6	71	56	60	64	66	61	78	71	78	73	71	68		817	68			6
7	65	66	60	58	70	68	72	62	58	57	50	52		738	62			7
8	56	57	66	64	69	66	66	63	68	63	67	64		769	64			8
9	71	70	76	78	71	73	76	78	76	70	78	73		890	74			9
10	73	67	72	70	80	75	85	74	73	73	79	74		895	75			10
11	74	78	84	88	85	85	82	79	74	78	80	73		960	80			11
12	70	61	62	62	71	66	72	68	69	58	57	52		768	64			12
13	46	60	59	59	62	61	57	52	54	44	39	47		640	53			13
14	41	40	47	50	51	45	52	49	53	62	58	59		607	51			14
15	57	55	46	47	56	66	61	57	49	50	41	39		624	52			15
16	40	36	43	42	46	57	44	50	49	57	55	58		577	48			16
17	52	65	57	59	57	67	57	64	66	63	60	65		732	61			17
18	64	59	59	65	61	60	63	49	69	64	60	62		725	60			18
19	57	58	56	56	58	52	53	54	58	57	66	59		684	57			19
20	51	62	63	55	58	54	61	65	70	66	76	63		745	62			20
21	61	65	63	64	67	68	67	70	74	71	74	78		822	68			21
22	65	61	63	59	58	60	66	77	71	74	67	63		784	65			22
23	62	65	47	49	50	48	50	47	52	53	55	54		632	53			23
24	48	54	59	57	64	56	50	39	47	51	59	57		641	53			24
25	66	64	55	64	69	78	67	69	72	76	74	75		829	69			25
26	76	88	87	74	83	77	74	73	80	80	80	74		946	79			26
27	80	73	77	76	68	72	75	69	75	75	62	73		875	73			27
28	70	69	75	84	76	74	80	83	85	78	77	75		926	77			28
29	66	68	67	69	68	65	71	70	65	70	67	65		811	68			29
30	62	73	68	67	63	69	74	68	66	60	66	47		783	65			30
31	57	59	56	58	59	59	67	64	60	61	60	52		712	59			31
Sum	1983	2017	2001	2005	2081	2062	2114	2039	2107	2053	2052	1982		24496	2040	65.8	(31 days)	
Mean	64.0	65.1	64.5	64.7	67.1	66.5	68.2	65.8	68.0	66.2	66.2	63.9		790.2				
														65.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 263

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	55	54	48	48	51	49	53	56	49	43	41	48		595	50			1
2	46	49	42	45	57	60	53	51	55	59	51	48		616	51			2
3	44	49	57	58	58	56	57	53	49	59	50	52		642	54			3
4	52	50	47	53	63	51	56	63	64	52	54	49		654	54			4
5	46	44	41	36	45	54	40	45	45	46	41	49		538	45			5
6	41	46	39	46	44	53	48	46	47	58	52	57		577	48			6
7	54	40	44	52	49	49	55	56	49	59	64	58		629	54			7
8	60	55	66	54	68	63	67	54	63	58	58	48		714	60			8
9	44	43	43	38	37	54	55	47	57	49	46	46		559	47			9
10	42	49	38	47	49	52	52	48	46	44	50	44		561	47			10
11	39	35	47	54	45	48	47	46	54	39	32	36		522	43			11
12	38	38	43	46	36	52	48	47	48	54	54	46		550	46			12
13	44	50	50	48	49	50	48	56	55	49	48	45		592	49			13
14	46	39	50	36	51	50	51	58	55	45	53	48		582	48			14
15	49	41	47	51	58	46	48	46	54	53	43	46		582	48			15
16	48	50	49	53	47	49	52	53	53	54	60	47		615	51			16
17	52	53	58	61	62	58	61	47	45	33				(530)	(53)	10		17
18	39	45	44	39	36	34	29	32	17	24	24	21		384	32			18
19	22	29	39	32	37	37	36	36	41	32	26	31		398	33			19
20	30	25	26	31	27	22	28	39	29	29	41	42		369	31			20
21	45	39	46	32	30	36	39	43	43	50	64	52		519	43			21
22	50	53	43	52	41	50	55	56	56	56	52	60		624	52			22
23	55	51	59	51	53	58	59	55	52	51	57	52		653	54			23
24	50	40	38	38	40	43	54	43	52	44	57	48		547	46			24
25	50	44	47	39	44	60	46	55	46	54	58	45		588	49			25
26	44	44	37	41	40	46	60	49	62	57	45	46		571	48			26
27	52	51	48	41	41	48	44	49	45	43	45	41		548	46			27
28	38	44	42	46	53	44	51	59	58	61	43	48		587	49			28
29	39	40	40	38	42	30	34	37	33	28	26	35		422	35			29
30	35	34	40	34	35	29	38	35	42	29	42	39		432	36			30
31																		31
Sum	1297	1271	1300	1279	1326	1373	1403	1413	1419	1379	1383	1327		16170	1349	46.5	(29 days)	
Mean	44.7	43.8	44.8	44.1	45.7	47.4	48.4	48.7	48.9	47.6	47.7	45.8		5576	1402	46.7	(30 days)	
														46.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 264

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1	45	29	31	32	31	32	23	26	23	23	24	30		349	29		1
2	26	21	32	30	32	34	28	42	29	33	34	35		376	31		2
3	40	32	45	36	34	45	32	45	34	34	35	36		448	37		3
4	45	32	41	38	38	38	37	42	41	46	45	50		493	41		4
5	40	49	49	34	44	42	46	38	53	49	44	45		533	44		5
6	46	48	48	37	39	44	42	46	40	49	52	46		537	45		6
7	45	52	55	42	52	43	55	53	53	56	52	64		622	52		7
8	52	61	64	53	56	51	66	58	64	64	63	65		717	60		8
9	53	57	63	57	54	62	62	62	60	59	60	62		711	59		9
10	63	51	56	57	52	54	71	55	52	66	63	55		695	58		10
11	56	54	59	54	57	59	59	55	54	47	53	47		654	54		11
12	49	50	48	48	47	46	55	39	50	55	50	42		579	48		12
13	40	41	43	43	42	48	42	51	40	50	50	50		540	45		13
14	51	51	46	50	47	42	44	43	44	49	53	56		576	48		14
15	47	41	33	46	47	46	52	40	37	39	39	38		505	42		15
16	47	39	34	37	29	35	30	34	35	39	33	36		428	36		16
17	36	36	33.	35	34	42	43	49	37	39	42	43		469	39		17
18	33	34	42	34	36	40	43	42	44	40	50	35		473	39		18
19																	19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
Sum	814	778	822	763	771	803	830	820	790	837	842	835		9705	807	44.8 (18days)	
Mean	45.2	43.2	45.7	42.4	42.8	44.6	46.1	45.6	43.9	46.5	46.8	46.4		539.2			
														44.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 265

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean		Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20	25	14	13	13	7	24	21	17	21	22	22	19		218	18		20
21	18	22	19	15	25	25	27	15	27	27	32	26		278	23		21
22	25	13	9	10	17	13	39	28	19	19	11	29		232	19		22
23	26	26	16	11	18	15	20	17	16	24	21	12		222	18		23
24	8	7	6	7	12	17	16	12	18	20	12	8		143	12		24
25	12	-2	16	-2	4	10	4	5	3	8	0	-4		54	4		25
26	9	-6	14	4	5	1	18	12	7	7	10	14		95	8		26
27	6	7	4	10	9	8	6	8	13	14	18	10		113	9		27
28	9	15	17	9	14	10	20	13	7	15	15	4		148	12		28
29	8	15	6	8	10	9	15	14	18	6	14	2		125	11		29
30	11	4	2	8	5	18	13	2	14	6	11	8		102	8		30
31																	31
Sum	157	115	122	93	126	150	199	143	163	168	166	128		1730	142	12.9 (11 days)	
Mean	14.3	10.5	11.1	8.5	11.5	13.6	18.1	13.0	14.8	15.3	15.1	11.6		157.1			
														13.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 266

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	4	14	8	8	3	8	8	9	6	6	21	11	106	9		1
2	7	11	14	16	15	17	18	13	15	23	19	26	194	16		2
3	29	25	17	23	20	22	27	27	18	19	23	29	279	23		3
4	28	29	21	23	22	26	29	17	23	32	23	23	296	25		4
5	22	23	18	16	14	23	17	25	22	27	21	19	247	21		5
6	16	17	17	13	19	15	26	20	16	13	20	26	218	18		6
7	24	25	20	10	24	26	27	25	24	27	29	27	288	24		7
8	25	14	16	22	26	24	24	25	28	26	27	22	279	23		8
9	22	15	15	12	28	19	23	21	22	25	19	36	257	21		9
10	29	17	27	22	16	22	31	31	26	31	30	25	307	26		10
11	26	27	27	27	23	22	21	25	25	28	24	16	291	24		11
12	19	14	23	26	27	27	33	37	25	28	25	25	309	26		12
13	30	28	18	21	27	19	24	16	27	27	19	13	269	22		13
14	27	21	26	21	11	19	22	7	15	18	20	22	229	19		14
15	26	13	24	25	23	12	21	20	18	25	18	17	242	20		15
16	24	20	11	13	18	14	22	18	24	17	22	21	224	19		16
17	12	12	21	13	17	21	22	24	19	18	8	+2	189	16		17
18	15	2	-12	-1	-9	-6	-9	-7	-1	-1	-3	-3	-35	-3		18
19	0	-3	0	-2	4	8	11	6	9	+4	0	-1	36	+3		19
20	-4	9	4	5	-2	9	-4	11	3	18	+10	14	73	6		20
21	8	6	10	6	8	8	21	11	0	15	13	16	122	10		21
22	6	3	13	15	18	21	12	15	21	15	23	17	179	15		22
23	14	12	17	12	22	14	19	21	11	15	20	23	200	17		23
24	22	14	10	11	10	14	21	15	10	20	18	16	181	15		24
25	20	16	11	22	6	24	24	18	17	25	25	20	228	19		25
26	22	26	20	25	25	26	17	17	23	24	24	25	274	23		26
27	37	37	28	27	28	25	25	22	29	24	30	21	333	28		27
28	25	28	34	26	24	27	22	32	29	27	27	30	331	28		28
29	28	40	24	23	24	28	30	25	28	31	32	29	342	28		29
30	20	26	24	26	27	10	22	34	28	30	22	29	298	25		30
31	23	20	26	17	21	25	23	20	31	24	11	32	273	23		31
Sum	606	561	532	523	539	569	629	600	591	661	620	628	7059	589	19.0 (31 days)	
Mean	19.5	18.1	17.2	16.9	17.4	18.4	20.3	19.4	19.1	21.3	20.0	20.3	227.9			
													19.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 267

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	27	17	22	24	25	31	20	36	29	34	39	33	337	28		1
2	19	27	31	27	15	21	20	21	33	26	30	23	293	24		2
3	20	23	24	27	28	24	15	24	18	26	21	27	277	23		3
4	7	14	11	22	17	21	28	21	22	23	27	26	239	20		4
5	29	24	21	16	25	28	30	29	20	27	32	21	302	25		5
6	23	26	33	16	20	16	15	22	16	22	27	25	261	22		6
7	23	19	23	14	19	17	23	26	26	25	27	23	265	22		7
8	19	28	15	22	15	17	10	12	21	24	29	21	233	19		8
9	10	20	16	16	8	5	8	21	20		21	21	(166)	(15)	"	9
10	15	11	16	24	14	17	14	12	16	11	18	24	192	16		10
11	16	13	11	20	17	21	19	15	13	15	18	20	198	16		11
12	21	15	19	20	19	14	17	19	25	19	14	18	220	18		12
13	22	15	20	12	20	24	17	20	19	26	27	24	246	20		13
14	15	12	10	7	19	3	16	16	16	15	21	12	162	14		14
15	18	18	22	13	10	10	11	-6	-8	-17	-9	-1	61	5		15
16	-1	-6	2	-16	4	-5	-8	-12	-9	-3	-2	-8	-64	-5		16
17	-22	-13	-10	-3	-5	-13	-16	-4	-4	-5	3	-6	-98	-8		17
18	-12	-9	+8	1	+4	1	-4	5	+12	16	9	-5	26	2		18
19	-5	-3	-6	-3	+5	10	12	15	+15	6	9	6	61	5		19
20	0	-1	-2	4	-1	9	5	1	12	10	8	6	51	4		20
21	6	+5	2	5	7	7	8	19	17	10	6	0	92	8		21
22	-3	3	8	+10	-5	3	-6	2	-4	-4	2	-6	0	0		22
23	5	8	5	6	2	-1	0	6	1	-2	7	3	40	3		23
24	3	11	11	6	11	7	6	7	11	16	19	10	118	10		24
25	13	7	15	7	14	12	15	18	18	18	19	19	175	15		25
26	10	0	13	13	11	21	20	27	10	17	12	22	176	15		26
27	18	19	15	11	12	18	24	18	16	19	21	15	206	17		27
28	18	15	11	20	6	29	20	20	13	25	21	23	221	18		28
29	13	9	10	13	10	20	12	17	13	13	22	24	176	15		29
30	11	12	12	16	14	13	18	22	22	25	20	13	198	16		30
31	17	7	22	15	12	16	24	20	18	20	21	18	210	18		31
Sum	345	326	394	369	364	411	385	448	427	457	518	430	4874	404	13.5 (30 days)	
Mean	11.5	10.9	13.1	12.3	12.1	13.7	12.8	14.9	14.2	152	17.3	14.3	162.3	419	13.5 (31 days)	
													13.5			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 268

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	23	15	16	28	21	25	32	19	19	11	9	24	242	20		1
2	16	15	15	12	12	16	24	15	29	20	11	9	194	16		2
3	3	19	8	24	18	7	9	9	6	-1	6	12	120	10		3
4	18	19	19	24	15	6	7	15	12	13	9	17	174	14		4
5	10	7	11	8	5	14	10	12	9	11	11	5	113	9		5
6	-2	-2	-2	1	9	6	14	7	8	6	12	10	67	6		6
7	8	2	7	8	11	12	8	8	10	20	12	12	118	10		7
8	1	10	13	13	11	17	11	18	14	23	12	19	162	14		8
9	10	22	13	21	14	8	22	16	12	18	23	28	207	17		9
10	20	21	17	14	19	11	22	19	21	22	25	19	230	19		10
11	19	21	21	13	19	11	25	16	16	18	21	30	230	19		11
12	15	10	21	12	10	10	12	15	10	18	16	13	162	14		12
13	8	14	22	15	10	11	25	21	17	19	16	16	194	16		13
14	10	8	13	7	17	9	15	16	26	20	21	19	181	15		14
15	19	27	17	15	17	22	15	23	23	23	20	24	245	20		15
16	21	24	23	25	17	27	21	22	25	23	25	13	266	22		16
17	17	25	19	25	20	16	20	26	25	31	18	20	262	22		17
18	24	26	13	9	13	16	13	15	15	25	15	22	206	17		18
19	14	17	24	22	10	21	24	14	22	24	27	27	246	20		19
20	18	32	31	17	22	26	25	24	34	27	26	14	296	25		20
21	17	23	16	12	22	22	31	15	24	30	24	26	262	22		21
22	12	13	17	28	20	23	27	25	25	28	39	24	281	23		22
23	23	26	15	12	16	18	1	7	8	4	13	7	150	12		23
24	7	15	12	20	19	17	11	3	14	11	9	11	149	12		24
25	15	18	14	15	23	13	23	25	27	26	19	20	238	20		25
26	2	13	10	14	20	14	26	22	19	22	23	23	208	17		26
27	19	24	25	14	17	30	21	23	25	28	29	30	285	24		27
28	27	16	29	10	24	12	21	25	27	27	28	25	271	23		28
29	18	14	12	20									(64)	(16)	4	29
30																30
31																31
Sum	394	480	459	438	451	440	515	475	522	547	519	519	5759	478	17.1 (28 days)	
Mean	14.1	17.1	16.4	15.6	16.1	15.7	18.4	17.0	18.6	19.5	18.5	18.5	2065.5	494	17.0 (29 days)	
													17.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 269

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1																1
2																2
3																3
4																4
5																5
6																6
7										29	28	23	(80)	(27)	3	7
8	21	22	28	21	30	37	29	34	31	29	20	35	337	28		8
9	23	23	30	20	26	21	18	24	29	28	23	27	292	24		9
10	25	31	33	26	26	30	29	31	29	33	37	24	354	30		10
11	31	28	27	32	21	26	23	23	21	28	29	20	309	26		11
12	26	21	28	14	15	21	29	16	19	22	21	19	251	21		12
13	19	24	20	15	21	13	23	23	31	27	30	26	272	23		13
14	22	24	28	25	19	21	26	41	34	31	44	28	343	29		14
15	18	23	29	25	8	18	32	34	29	37	29	25	307	26		15
16	26	24	28	19	24	33	33	30	26	30	29	27	329	27		16
17	21	18	14	21	21	30	24	27	27	30	24	25	282	24		17
18	18	21	31	29	36		35	42	28	25	22	30	(317)	(29)	11	18
19	21	26	24	26	27	26	27	17	27	20	26	28	295	25		19
20	22	21	22	21	27	20	24	31	28	17	33	23	289	24		20
21	25	24	22	24	20	19	28	15	19	31	27	24	278	23		21
22	27	28	15	30	32	26	35	34	30	38	29	25	349	29		22
23	32	30	27	29	27	21	29	32	32	22	10	24	315	26		23
24	32	38	34	31	23	35	33	38	42	29	30	32	397	33		24
25	38	32	29	22	28	26	36	27	28	34	27	29	356	30		25
26	28	28	30	36	29	32	31	28	39	35	31	30	377	31		26
27	33	23	31	34	28	34	29	32	31	35	32	28	370	31		27
28	36	27	30	28	32	32	28			31	33	27	(304)	(30)	10	28
29	21	20	25	14	14	23	28	34	36	36	31	44	326	27		29
30	26	38	28	30	32	44	37	33	43	33	24	38	406	34		30
31	28	32	32	29	31	29	34	36	28	31	30	29	369	31		31
Sum	565	578	584	544	529	585	637	640	659	656	616	610	7203	602	27.4 (22 days)	
Mean	25.7	26.3	26.5	24.7	24.0	26.6	29.0	29.1	30.0	29.8	28.0	27.7	327.4	688	27.5 (25 days)	
													27.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 270

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^b	23^h		Sum	Mean		Day
1	39	36	20	30	24	31	36	29	27	31	28	26		357	30		1
2	28	26	35	27	21	32	30	30	24	26	15	26		320	27		2
3	27	24	25	17	15	19	27	27	33	26	31	26		297	25		3
4	25	24	27	39	23	27	31	25	24	31	39	27		342	28		4
5	34	26	29	22	37	29	31	32	26	31	41	35		373	31		5
6	39	32	36	31	39	33	42	27	30	25	35	32		401	33		6
7	28	35	27	24	29			27	26	30	32	38		(296)	(30)	10	7
8	36	24	35	36	35	40	31	37	38	40	45	44		441	37		8
9	43	38	37	32	30	26	21	29	23	30	36	22		367	31		9
10	20	20	19	24	25	25	26	31	25	23	20	35		293	24		10
11	24	14	21	14	19	20	23	16	29	20	24	23		247	21		11
12	25	26	19	34	24	38	32	32	35	29	33	34		361	30		12
13	34	32	31	28	32	32	32	27	34	28	28	34		372	31		13
14	30	32	36	29	33	37	36	35	39	36	35	40		418	35		14
15	22	24	36	28	30	31	33	34	39					(277)	(31)	9	15
16																	16
17									39	33	51	46		(169)	(42)	4	17
18	46	37	40	40	48	39	47	40	47	34	45	40		503	42		18
19	41	44	42	48	44	50	30	48	35	36	35	40		493	41		19
20	36	46	42	48	44	36	46	52	52	49	50	43		544	45		20
21	45	45	47	50	52	50	43	55	52	48	52	52		591	48		21
22	43	42	44	45	35	34	45	40	45	44	49	47		513	43		22
23	32	45	40	41	44	51	49	53	42	41	51	51		540	45		23
24	42	51	56	52										(201)	(50)	4	24
25																	25
26						48	54	53	58	57	43	53		(366)	(52)	7	26
27	42	40	50	41	52	43	48	58	59	49	46	48		576	48		27
28	43	39	41	40	43	36	34	48	50	45	47	41		507	42		28
29	37	32	47	45	46	47	55	45	51	46	49	48		548	46		29
30	52	46	40	47	53	48	54	49	42	45	44	50		570	48		30
31																	31
Sum	821	770	803	808	818	823	849	865	862	813	878	864		9974	831	36.1 (23 days)	
Mean	35.7	33.5	34.9	35.1	35.6	35.8	36.9	37.6	37.5	35.3	38.2	37.6		433.7	1036	37.0 (28 days)	
														36.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 271

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1947

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	35	37	40	36										(148)	(37)	4	1
2												29		(29)	(29)	1	2
3	35	36	25	39						28	33	33		(229)	(33)	7	3
4	45	33	38	32	31	43	37	40	36	37	32	39		443	37		4
5	35	40	32	40	40	31	46	46	43	42	36	39		470	39		5
6	33	36	37	44	43	43	47	48	47	49	36	41		504	42		6
7	44	48	43	43			47	50	42	35	33	33		(418)	(42)	10	7
8	40	29	35	30	25	37	34	33	41	40	36	40		420	35		8
9	35	39	31	45	40	35	46	32	35	39	40	37		454	38		9
10	36	35	33	35	31	40	38	33	25	25	35	32		398	33		10
11	36	32	31	35	34	42	39	30	37	37	40	43		436	36		11
12	41	50	42	42	40	45	44	43	50	47	44	38		526	44		12
13	48	42	42	46	46	44	45	41	39	49	46	44		532	44		13
14	51	52	37	42	50	56								(288)	(48)	6	14
15						38	49	54	46	45	43	38		(313)	(45)	7	15
16	42	37	37	37	48	49	48	48	48	56	48	49		547	46		16
17	42	49	51	50	51	45	61	56	60	50	54	50		619	52		17
18	41	49	38	33	44	53	47	52	40	43	50	54		544	45		18
19	45	48	52	41	50	55	56	58	45	48	52	54		604	50		19
20	50	49	54	49	52	50	63	50	55	51	52	54		629	52		20
21	48	47	51	53	44	47	48	54	57	51	62	58		620	52		21
22	50	44	48	48	51	57	56	55	47	55	53	48		612	51		22
23	53	59	62	54	42	47	60	55	58	52	50	54		646	54		23
24	53	38	42	37	42	48	51	58	53	47	60	49		578	48		24
25	51	37	40	49	59	42	49	57	58	63	57	58		620	52		25
26	56	58	49	55	61									(279)	(56)	5	26
27																	27
28																	28
29									49	55	46	47		(197)	(49)	4	29
30	46	43	38	41	51	50	47	48	49	53	44	39		549	46		30
31	44	50	41	48	44	53	47	44	53	44	48	54		570	48		31
Sum	914	886	875	889	908	956	1009	981	976	978	975	974		11321	944	45.0 (21 days)	
Mean	43.5	42.2	41.7	42.3	43.2	45.5	48.0	46.7	46.5	46.6	46.4	46.4		539.0	1283	44.2 (29 days)	
														44.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 272

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	47	47	32	36	44	42	44	53	45	44	51	54	539	45		1
2	52	46	42	50	51	61	51	52	49	55	48	47	604	50		2
3	47	48	47	50	50	47	50	57	47	45	52	50	590	49		3
4	47	42	53	41	51	52	58	53	58	50	59	60	624	52		4
5	54	47	53	53	55	55	53	50	48	52	52	58	630	52		5
6	52	56	48	50	53	59	70	65	60	65	65	63	706	59		6
7	63	59	59	55	60	65	69	58	57	64	54	54	717	60		7
8	47	52	50	52	46	47	48	49	49	55	48	39	582	48		8
9	34	41	35	40	36		53	44	47	52	54	48	(484)	(44)	11	9
10	51	48	48	55	52	56	66	57	51	56	59	54	653	54		10
11	59	60	66	63	57	60	54	53	49	52	52	47	672	56		11
12	46	46	41	52	43								(228)	(46)	5	12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20
21																21
22																22
23																23
24																24
25																25
26																26
27																27
28																28
29																29
30																30
31																31
Sum	519	505	498	505	519	544	563	547	513	538	540	526	6317	525	52.5 (10 days)	
Mean	51.9	50.5	49.8	50.5	51.9	54.4	56.3	54.7	51.3	53.8	54.0	52.6	631.7	615	51.2 (12 days)	
													52.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 273

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1																1
2																2
3	56	50	53	46	56	43	68	66	60	55	46	45	644	54		3
4	44	41	51	42	54	41	48	50	55	46	60	46	578	48		4
5	50	51	42	46	54	47	59	49	45	57	51	56	607	51		5
6	50	50	54	62	52	50	50	49	56	47	61	48	629	52		6
7	64	57	50	62	57	57	53	53	55	62	50	47	667	56		7
8	53	59	56	55	52	58	71	62	60	61	68	60	715	60		8
9	58	60	61	62	80	65	56	62	70	64	70	61	769	64		9
10	58	61	67	56	65	68	62	63	66	60	58	53	737	61		10
11	52	59	61	57	64	62	58	61	65	52	52	56	699	58		11
12	46	45	41	53	49	56	50	56	47	49	55	53	600	50		12
13	47	58	51	49	46	45	46	50	43	47	54	48	584	49		13
14	42	38	46	48	48	57	59	62	62	65	64	63	654	54		14
15	64	53	64	66		69	58	59	58	57	56	53	(657)	(60)	11	15
16	56	58	52	53	59	49	56	55	56	56	58	49	652	54		16
17	61	50	56	53	64	66	54	69	50	59	62	62	706	59		17
18	55	62	52	58	53	62	50	60	49	56	61	50	668	56		18
19	55	48	60	58	53	47	51	61	57	53	56	56	655	55		19
20	52	50	51	51	65	66	60	64	61	68	53	56	697	58		20
21	58	64	75	61	67	59	61	60	66	60	61	55	747	62		21
22	57	62	75	59	70	56	55	69	60	58	54	64	739	62		22
23	63	62	56	71	73	62	61	67	57	49	49	49	719	60		23
24	57	60	46	50	56	60	54	61	61	47	53	43	648	54		24
25	48	45	45	50	50	53	54	54	60	44	56	49	608	51		25
26	61	57	52	50	63	59	66	64	54	59	56	67	708	59		26
27	47	43	50	53	50	54	53	58	51	51	54	55	619	52		27
28	50	48	51	41	45	49	47	60	48	53	52	51	595	50		28
29	55	61	65	57	54	66	59	61	61	62	59	52	712	59		29
30																30
31																31
Sum	1390	1399	1419	1403	1499	1457	1461	1546	1475	1440	1473	1394	17356	1448	55.7 (26 days)	
Mean	53.5	53.8	54.6	54.0	57.7	56.0	56.2	59.5	56.7	55.4	56.7	53.5	667.6	1508	55.9 (27 days)	
													55.6			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 274

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	66	66	51	57	55	59	63	62	67	54	49	54	703	58			1
2	52	49	51	57	66	54	60	62	50	53	47	49	650	54			2
3	51	45	53	44	56	50	41	53	51	49	52	44	589	49			3
4	48	53	59	48	51	57	57	70	65	57	59	61	685	57			4
5	62	59	67	63	63	52	58	71	59	62	58	69	743	62			5
6	65	52	63	58	59	50	54	57	55	56	57	51	677	56			6
7	49	57	55	49	50	57	60	56	53	59	53	55	653	54			7
8	53	66	60	69	65	65	66	73	68	69	66	64	784	65			8
9	63	58	61	64	54	61	65	53	54	63	49	53	698	58			9
10	58	56	60	59	68	63	65	65	59	66	65	73	757	63			10
11	68	58	55	66	53	55	60	56	64	58	72	58	723	60			11
12	48	52	58	55	55	62	56	49	63	67	62	68	695	58			12
13	68	60	57	55	56	72	71	62	66	62	67	55	751	63			13
14	52	50	58	53	54	59	53	59	50	50	64	55	657	55			14
15	49	50	52	30	34	27	21	22	28	26	33	25	397	33			15
16	36	28	25	26	29	22	19	24	16	19	33	31	308	26			16
17	36	33	44	39	39	33	29	34	38	37	35	44	441	37			17
18	50	45	39	39	52	44	53	45	40	45	36	32	520	43			18
19	42	31	38	37	42	42	40	41	38	44	32	37	464	39			19
20	36	36	45	41	44	43	43	40	45	36	31	41	481	40			20
21	29	31	38	40	32	28	39	44	37	38	34	33	423	35			21
22	28	31	37	34	36	43	42	42	45	40	43	36	457	38			22
23	38	43	40	42	41	43	51	44	49	44	44	44	523	44			23
24	47	48	39	52	49	53	45	56	43	41	45	43	561	47			24
25	43	56	48	45	59	51	58	49	48	44	50	46	597	50			25
26	53	45	45	39	51	54	52	59	54	57	50	53	612	51			26
27	41	49	44	48	42	45	57	61	62	55	48	59	611	51			27
28	52	53	55	61	64	65	68	67	63	70	68	59	745	62			28
29	56	56	65	62	63	65	66	66	62	68	64	70	763	64			29
30	60	58	63	60	55	61	66	64	65	67	67	61	747	62			30
31	57	55	58	67	69	65	58	65	61	47	55	53	710	59			31
Sum	1556	1529	1583	1559	1606	1600	1636	1671	1618	1603	1588	1576	19125	1593	51.4	(31 days)	
Mean	50.2	49.3	51.1	50.3	51.8	51.6	52.8	53.9	52.2	51.7	51.2	50.8	616.9				
													51.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 275

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	42	47	49	53	50	58	44	52	53	52	50	44	594	50			1
2	43	49	52	58	58	53	57	53	63	63	50	54	653	54			2
3	55	59	58	52	62	60	52	56	54	49	65	57	679	57			3
4	59	48	54	54	50	56	51	49	49	48	43	44	605	50			4
5	53	41	60	42	37	48	48	50	47	49	51	50	576	48			5
6	35	39	37	44	44	46	49	47	42	38	49	51	521	43			6
7	39	33	54	42	42	49	48	42	34	34	42	36	495	41			7
8	49	43	49	39	46	40	41	37	38	36	44	39	501	42			8
9	42	52	51	46	58	55	64	64	66	63	49	49	659	55			9
10	59	58	62	54	62	56	55	59	65	57	50	51	688	57			10
11	54	56	54	48	54	55	45	55	62	44	42	52	621	52			11
12	44	48	48	49	51	45	44	38	37	43	42	46	535	45			12
13	48	37	47	51	44	46	42	53	54	56	46	49	573	48			13
14	52	43	39	43	42	50	42	36	42	39	38	38	504	42			14
15	31	50	50	50	50	42	39	40	48	39	44	42	525	44			15
16	49	49	44	46	52	54	52	52	45	51	47	46	587	49			16
17	51	49	50	49	53	54	59	49	52	50	50	50	616	51			17
18	51	53	51	53	47	51	47	52	52	51	43	43	594	50			18
19	53	47	51	53	48	46	48	50	45	35	51	45	572	48			19
20	43	45	49	48	47	57	48	39	41	47	48	47	559	47			20
21	60	38	44	47	51	43	56	49	43	45	48	53	577	48			21
22	51	60	57	52	54	68	56	60	60	62	50	56	686	57			22
23	51	52	54	53	50	53	50	51	47	51	52	50	614	51			23
24	45	38	42	43	50	48	50	46	39	44	47	43	535	45			24
25	40	48	36	48	49	40	53	48	48	63	44	48	565	47			25
26	45	44	54	51	58	53	65	52	49	50	50	44	615	51			26
27	56	50	52	47	52	48	58	60	53	58	53	54	641	53			27
28	59	57	56	58	61	62	61	58	71	61	59	59	722	60			28
29	67	61	57	61	63	66	80	62	71	63	66	68	791	66			29
30	66	63	64	66	66	66	63	64	57	66	62	62	765	64			30
31																	31
Sum	1492	1463	1525	1500	1551	1568	1567	1523	1527	1507	1475	1470	18168	1515	50.5	(30 days)	
Mean	49.7	48.8	50.8	50.0	51.7	52.3	52.2	50.8	50.9	50.2	49.2	49.0	6056				
													50.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 276

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	61	59	56	47	59	49	66	58	59	55	53	53	675	56		1
2	52	48	49	44	49	55	46	47	54	41	42	53	580	48		2
3	44	48	53	59	48	48	49	56	59	54	61	53	632	53		3
4	55	47	42	39	35	53	47	49	53	50	47	46	563	47		4
5	48	42	39	44	35	46	36	47	53	53	42	48	533	44		5
6	58	45	42	47	47	42	47	48	50	51	45	46	568	47		6
7	55	46	47	36	41	49	49	50	54	52	50	46	575	48		7
8	43	44	49	50	51	40	51	45	41	38	37	28	517	43		8
9	39	25	15	22	20	17	21	25	25	15	16	18	258	22		9
10	11	14	27	20	14	15	14	9	9	17	12	8	170	14		10
11	8	17	28	18	27	23	16	18	25	14	16	17	227	19		11
12	17	15	30	18	35	13	29	23	18	24	20	12	254	21		12
13	9	9	8	11	15	19	11	23	27	24	29	28	213	18		13
14	28	38	29	33	27	32	26	30	30	39	42	34	388	32		14
15	13	17	18	29	23	29	31	27	28	21	33	27	296	25		15
16	17	16	24	18	12	18	28	26	18	22	20	21	240	20		16
17	10	13	21	23	20	22	28	24	27	30	31	26	275	23		17
18	30	27	31	31	43	45	38	31	39	34	40	34	423	35		18
19	35	41	39	44	39	40	48	45	43	42	34	43	493	41		19
20	45	41	38	41	32	31	40	45	42	37	42	43	477	40		20
21	48	41	40	35	37	37	29	39	39	33	38	39	455	38		21
22	43	42	43	41	36	34	33	39	37	40	40	42	470	39		22
23	51	40	40	35	35	48	49	45	43	38	42	42	508	42		23
24	44	35	33										(112)	(37)[3]		24
25																25
26						42	46	45	50	55	49	36	(323)	(46)[7]		26
27	43	41	40	35	47	44	39	45	35	41	39	37	486	40		27
28	42	50	49	35	51	49	46	42	38	40	34	40	516	43		28
29	40	51	40	47	48	51	40	50	43	45	37	38	530	44		29
30	32	32	29	34	48	34	46	43	41	46	40	36	461	38		30
31	39	34	34	31	40	47	38	44	40	28	37	34	446	37		31
Sum	1016	983	1000	967	1014	1030	1041	1073	1070	1024	1019	992	12229	1017	36.3 (28 days)	
Mean	36.3	35.1	35.7	34.5	36.2	36.8	37.2	38.3	38.2	36.6	36.4	35.4	4367	1100	36.7 (30 days)	
													36.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 277

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	34	46	55	33	40	58	45	38	47	41	36	52	525	44		1
2	52	48	44	46	54	47	48	33	44	53	44	45	558	46		2
3	44	40	42	50	43	47	43	51	43	50	49	53	555	46		3
4	41	46	48	38	49	42	52	49	54	35	42	48	544	45		4
5	50	49	41	43	49	47	50	52	46	48	41	45	561	47		5
6	38	44	47	47	50	43	51	49	48	42	45	44	548	46		6
7	46	41	37	49	46	46	43	46	44	44	51	53	546	46		7
8	49	46	50	40	50	53	48	48	55	48	51	49	587	49		8
9	50	43	47	49	47	51	57	37	48	50	53	48	580	48		9
10	51	44	38	53	49	54	49	53	49	44	40	40	564	47		10
11	50	31	46	35	42	48	44	51	43	46	42	38	516	43		11
12	29	33	30	29	37	36	30	35	39	37	34	31	400	33		12
13	31	28	32	33	44	44	36	42	47	39	42	40	458	38		13
14	42	29	41	37	45	46	41	42	44	48	47	36	498	42		14
15	48	36	39	39	41	47	50	45	43	34	37	42	501	42		15
16	46	36	39	41	41	37	39	48	42	46	46	46	507	42		16
17	51	43	43	39					49	42	41	40	(348)	(44)[8]		17
18	41	38	37						39	39	41	32	(267)	(38)[7]		18
19	41	40	36	40	47	34	41	42	43	42	36	33	475	40		19
20	43	35	34	29	46	38	49	33	38	20	35	35	435	36		20
21	43	31	37	32	32	39	36	33	37	34	38	36	428	36		21
22	38	46	36	36	34	30	40	38	30	35	33	30	426	36		22
23	34	31	25	31	30	30	34	27	29	29	31	29	360	30		23
24	27	39	34	32	37	31	41	32	22	29	34	30	388	32		24
25	40	41	35	35	34	38	41	48	40	44	32	41	469	39		25
26	33	24	28	34	37	31	33	28	43	29	30	28	378	32		26
27	31	27	35	39	33	36	29	28	33	32	25	33	381	32		27
28	27	30	32	25	33	39	30	32	37	21	37	40	383	32		28
29	30	29	30	27	30	32	36	35	29	33	37	24	372	31		29
30	32	28	30	36	41	36	36	39	40	26	40	30	414	34		30
31																31
Sum	1120	1041	1068	1058	1161	1160	1172	1134	1157	1079	1108	1099	13357	1114	39.8 (28 days)	
Mean	40.0	37.2	38.1	37.8	41.5	41.4	41.8	40.5	41.3	38.5	39.6	39.2	476.9	1196	39.9 (30 days)	
													39.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 278

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	35	36	24	36	34	43	43	46	39	39	36	36		447	37			1
2	34	41	45	47	44	34	46	45	36	43	42	42		499	42			2
3	38	43	46	41	49	40	42	38	48	29	31	36		481	40			3
4	37	35	30	27	36	36	29	41	45	24	35	33		408	34			4
5	34	23	23	26	37	32	23	32	29	32	24	37		352	29			5
6	29	31	20	35	27	33	25	35	31	20	36	41		363	30			6
7	23	23	28	32	28	36	34	33	31	32	30	26		356	30			7
8	25	28	30	33	29	29	26	33	25	30	31	28		347	29			8
9	20	33	30	34	31	37	26	36	27	29	25	20		348	29			9
10	23	22	32	25	17	25	31	24	35	24	24	18		300	25			10
11	11	22	19	19	22	17	14	17	18	15	19	23		216	18			11
12	25	31	25	25	20	29	18	4	16	19	28	22		262	22			12
13	28	21	28	15	22	26	22	25	21	22	21	18		269	22			13
14	23	33	27	18	27	25	29	21	30	26	33	22		314	26			14
15	31	27	23	15	20	26	26	29	31	23	30	39		320	27			15
16	29	27	22	17	16	17	17	22	29	29	26	22		273	23			16
17	15	22	25	8	4	11	17	24	21	22	22	28		219	18			17
18	23	27	27	14	26	21	19	24	21	28	30	26		286	24			18
19	31	15	22	28	26	23	26	31	27	33	20	34		316	26			19
20	22	28	26	28	36	32	41	33	26	32	32	37		373	31			20
21	32	27	25	20	31	25	25	24	22	24	27	20		302	25			21
22	20	21	21	26	31	37	31	23	32	30	24	22		318	26			22
23	30	22	30	23	28	28	30	34	33	33	23	31		345	29			23
24	29	25	27	28	32	42	38	28	33	40	41	26		389	32			24
25	20	28	30	32	31	34	37	36	32	44	30	24		378	32			25
26	30	18	30	26	19	42	35	36	32	37	25	22		354	30			26
27	39	37	32	25	31	28	34	34	30	34	33	29		386	32			27
28	27	32	38	34	36	38	27	23	31	33	27	31		377	31			28
29	32	36	37	40	32	41	39	28	29	24	24	31		393	33			29
30	39	38	36											(113)	(38)	3		30
31																		31
Sum	795	814	822	777	822	887	850	859	860	852	829	824		9991	832	28.7	(29 days)	
Mean	27.4	28.1	28.3	26.8	283	30.6	29.3	29.6	29.6	29.4	28.6	28.4		344.4	810	29.0	(30 days)	
														28.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 279

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1																		1
2																		2
3																		3
4																		4
5						41	37	44	34	36	30	28		(250)	(36)	7		5
6	31	29	35	39	40	41	40	42	42	43	41	25		448	37			6
7	24	24	28	32	27	26	39	30	33	28	20	8		319	27			7
8	17	24	18	23	35	32	31	36	39	29	19	28		348	29			8
9	18	28	20	39	30	40	37	35	33	27	27	30		364	30			9
10	29	35	20	23	21	27	27	25	25	26	15	22		295	25			10
11	25	23	20	23	25	32	25	28	36	27	18	24		306	26			11
12	23	22	20	23	19	32	42	43	39	25	37	33		358	30			12
13	22	23	24	19	21	25	27	32	32	25	24	19		293	24			13
14	14	23	21	17	19	32	29	39	31	24	25	26		300	25			14
15	21	20	23	33	25	31	40	30	39	35	32	33		362	30			15
16	30	35	27	28	40	30	32	39	29	39	40	30		399	33			16
17	34	36	26	26	41	37	40	43	40	52	35	32		442	37			17
18	34	31	34	39	30	38	36	34	41	31	46	25		419	35			18
19	29	29	37	43	41	42	43	34	38	36	37	40		449	37			19
20	45	40	39	41	39									(204)	(41)	5		20
21							30	30	29	32	38	32		(191)	(32)	6		21
22	22	20	30	35	32	30	29	29	33	34	23	31		348	29			22
23	27	29	27	21	34	26	28	25	27	25	28	27		324	27			23
24	23	23	23	23	28	28	31	25	26	21	26	24		301	25			24
25	29	29	28			24	31	24	33	30	37	17		(282)	(28)	10		25
26	28	22	23	19	28	36	33	26	33	33	25	29		335	28			26
27	20	25	26	27	29	22	25	36	28	27	31	18		314	26			27
28	20	22	16	28	16	28	34	41	28	21	28	23		305	25			28
29	24	20	24	31	26	33	23	24	26	22	21	20		294	26			29
30	28	24	22	28	25	26	22	25	30	24	26	28		308	26			30
31	27	23	30	29	22	35	19	20	25	35	28	32		325	27			31
Sum	570	590	574	648	654	729	732	741	753	689	662	607		7949	664	28.9	(23 days)	
Mean	24.8	25.7	25.0	28.2	28.4	31.7	31.8	32.2	32.7	30.0	28.8	26.4		345.7	801	29.7	(27 days)	
														28.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 280

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	26	22	33	22	29	28	28	26	22	16	19	19	290	24		1
2	16	21	19	26	25	24	26	22	28	21	17	16	261	22		2
3	18	25	30	18	29	25	25	28	24	24	25	18	289	24		3
4	26	18	26	28	18	25	25	29	16	21	29	29	290	24		4
5	26	22	24	20	23	39	26	21	30	36	29	24	320	27		5
6	25	19	25	24	32	30	36	32	37	34	28	30	352	29		6
7	33	27	29	33	36	35	28	36	29	25	24	32	367	31		7
8	26	25	22	19	29	32	23	33	31	23	28	28	319	27		8
9	23	21	27	18	25	28	29	27	25	26	30	25	304	25		9
10	31	15	25	19	35	36	34	37	37	36	19	13	337	28		10
11	15	25	14	26	14	22	26	26	20	20	20	24	252	21		11
12	19	17	19	18	23	17	25	15	21	15	20	9	218	18		12
13	21	25	18	13	13	15	21	24	17	18	19	19	223	19		13
14	17	21	13	14	18	22	20	20	23	22	25	30	245	20		14
15	32	24	28	27	32	37	29	33	38	42	37	25	384	32		15
16	31	33	23	39	24	35	28	29	31	30	32	31	371	31		16
17	27	34	27	31	27	29	28	26	23	28	28	25	333	28		17
18	25	31	32	31	31	36	29	30	38	30	43	32	388	32		18
19	30	35	31	27	28	34	40	37	36	24	26	32	380	32		19
20	31	28	30	16	30	25	21	24	35	31	26	27	324	27		20
21	31	34	22	32	35	25	35	37	39	29	22	27	368	31		21
22	33	30	21	32	35	32	32	38	38	31	26	28	376	31		22
23	35	30	20	26	28	34	31	35	34	28	26	29	356	30		23
24	26	32	26	23	27	29	30	39	29	32	33	28	354	30		24
25	23	32	33	30	28	20	32	24	36	27	29	34	348	29		25
26	35	29	25	20	26	31	26	30	37	25	24	34	342	28		26
27	28	20	21	20	30	25	27	25	25	21	33	22	297	25		27
28	22	26	24	22	19	26	29	24	20	28	24	22	286	24		28
29	19	18	29	17	21	29	19	28	22	27	27	27	283	24		29
30	22	21	27	27	34	29	36	31	34	28	28	28	345	29		30
31																31
Sum	772	760	743	718	804	854	844	866	880	798	796	767	9602	802	26.7 (30 days)	
Mean	25.7	25.3	24.8	23.9	26.8	28.4	28.1	28.9	29.3	26.6	26.5	25.6	319.9			
													26.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 281

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	27	20	25	29	31	28	26	25	18	10	25	15	279	23		1
2	18	23	25	23	30	28	31	21	22	19	19	27	286	24		2
3	27	24	24	33	36	29	40	34	32	35	28	31	373	31		3
4	29	31	40	40	40	30	41	31	41	42	39	34	438	36		4
5	40	38	35	41	31	43	41	48	39	30	42	49	477	40		5
6	42	29	30	39	23	29	34	32	33	33	40	39	403	34		6
7	40	32	39	28	34	32	31	35	40	42	33	36	422	35		7
8	26	26	40	41	37	41	36	48	46	42	47	39	469	39		8
9	38	45	44	54	41	41	48	47	41	36	40	40	515	43		9
10	43	37	35	23	42	40	43	41	37	31	31	25	428	36		10
11	20	31	38	36	39	32	28	31	31	33	33	32	384	32		11
12	39	47	32	39	30	38	35	40	39	35	32	40	446	37		12
13	44	36	35	39	48	50	47	41	39	45	39	44	507	42		13
14	51	45	45	38	45	36	48	48	39	35	34	42	506	42		14
15	30	31	40	30	30	36	34	27	33	37	32	31	391	33		15
16	37	31	39	31	33	37	37	36	33	33	36	28	411	34		16
17	35	29	41	30	35	34	32	37	32	29	25	24	383	32		17
18	29	16	42	27	24	15	21	21	17				(212)	(24)	9	18
19																19
20					36	29	29	36	28	37	34	18	(247)	(31)	8	20
21	27	38	35	34	24	30	24	24	35	28	26	31	356	30		21
22	32	28	40	30	28	31	34	36	44	31	33	36	403	34		22
23	29	35	31	37	37	37	36	42	44	38	41	42	449	37		23
24	40	46	48	42	37	38	43	47	45	41	45	44	516	43		24
25	46	38	41	32	49	41	43	45	44	42	47	41	509	42		25
26	47	36	31	43	38	45	39	39	41	37	41	40	477	40		26
27	50	42	42	51	48	55	52	47	53	43	48	47	578	48		27
28	54	58	49	47	43	41	59	50	44	45	43	42	575	48		28
29	49	56	59	58	57	48	54	52	46	51	62	43	635	53		29
30	52	40	50	51	50	56	49	47	46	45	47	38	571	48		30
31	49	49	44	48	48	50	46	42	43	38	43	50	550	46		31
Sum	1061	1021	1077	1067	1064	1076	1111	1093	1080	1006	1051	1030	12737	1062	37.9 (28 days)	
Mean	37.9	36.5	38.5	38.1	38.0	38.4	39.7	39.0	38.6	35.9	37.5	36.8	455.0	1117	37.2 (30 days)	
													37.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 282

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	49	53	44	47	50	53	49	38	44	46	43	41	557	46			1
2	45	32	41	37	32	42	41	47	49	44	44	50	504	42			2
3	43	44	47	53	55	46	53	52	56	43	43	50	585	49			3
4	46	42	48	45	47	46	50	48	46	37	45	45	545	45			4
5	29	40	47	45	37	42	42	44	40	37	37	46	486	40			5
6	38	34	47	46	41	43	53	48	30	44	39	40	523	44			6
7	43	48	42	46	46	48	54	48	52	44	54	46	571	48			7
8	49	42	57	50	49	48	52	47	52	54	43	48	591	49			8
9	50	48	48	52	42	38	55	50	36	47	40	39	545	45			9
10	42	45	38	30	56	50	50	47	48	52	57	50	565	47			10
11	46	50	44	43	53	56	57	50	54	51	41	52	597	50			11
12	50	42	44	48	53	46	52	55	52	49	54	52	597	50			12
13	44	47	38	47	38	42	46	60	60	51	41	49	563	47			13
14	45	52	47	49	57	64	58	58	64	63	51	47	655	55			14
15	53	52	50	59	49	60	61	60	60	58	57	59	678	56			15
16	46	54	41	52	41	49	49	46	42	56	44	50	570	48			16
17	47	40	54	54									(195)	(49)	4		17
18																	18
19					37	33	30	39	36	34	44	32	(285)	(36)	8		19
20	36	32	35	38	41	42	48	46	47	42	43	44	494	41			20
21	38	33	42	39	43	48	47	42	48	52	42	35	509	42			21
22	37	37	49	42	40	47	49	42	42	38	47	54	524	44			22
23	45	44	43	46	39	55	44	40	46	30	52	50	554	46			23
24	51	45	48	48	48	46	50	41	47	50	60	49	583	49			24
25	49	52	47	49	43	43	35	37	50	35	34	39	513	43			25
26	40	29	39	32	38	33	55	41	34	38	45	36	460	38			26
27	27	34	43	46	44	41	44	43	52	41	38	43	496	41			27
28	41	43	48	44	44	47	56	53	53	51	39	40	559	47			28
29	49	45	54	54	51	50	45	53	53	48	52	50	604	50			29
30	52	46	45	53	58	54	53	51	51	50	62	45	620	52			30
31																	31
Sum	1183	1165	1216	1240	1235	1279	1348	1287	1328	1271	1247	1249	15048	1252	46.4	(27 days)	
Mean	43.8	43.1	45.0	45.9	45.7	47.4	49.9	47.7	49.2	47.1	46.2	46.3	557.3	1337	46.1	(29 days)	
													46.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 283

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1948

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	54	41	53	65	63	61	62	60	51	52	57	56	675	56			1
2	52	57	41	55	49	49	55	52	49	40	51	38	588	49			2
3	41	54	45	45	50	49	46	47	53	49	43	47	569	47			3
4	62	54	50	57	54	47	53	54	61	54	56	50	652	54			4
5	63	56	55	59	59	58	58	51	47	50	53	55	664	55			5
6	57	51	53	57	54	66	67	60	60	59	54	51	689	57			6
7	60	43	61	48	59	60	64	59	62	56	46	62	680	57			7
8	60	54	51	59	61	56	71	65	58	63	57	67	722	60			8
9	60	64	70	50	54	53	62	63	71	67	65	62	741	62			9
10	61	68	61	68	66	68	68	74	75	68	68	62	807	67			10
11	59	61	59	58	59	56	64	59	57	67	62	62	723	60			11
12	55	49	63	48	62	58	59	62	62	56	67	53	694	58			12
13	54	52	46	53	52	42	55	43	44	44	49	47	581	48			13
14	43	53	48	51	53	42	47	40	47	40	49	52	565	47			14
15	58	52	51			48	46	40	40	43	40	41	(459)	(46)	10		15
16	47	48	37	34	41	36	42	39	49	41	40	39	493	41			16
17	42	41	46	45	39	39	46	51	57	47	50	54	557	46			17
18	56	63	65	65	48	60	64	50	45	50	49	58	673	56			18
19	54	65	51	56	55	65	57	65	70	67	73	63	741	62			19
20	66	56	62	53	62	68	63	63	63	53	61	61	731	61			20
21	58	62	63	57	59	57	57	53	51	50	47	44	658	55			21
22	48	48	48	56	56	58	61	60	59	45	51	61	651	54			22
23	54	56	56	64	61	69	71	67	63	61	65	65	752	63			23
24	72	66	74	66	70	64	66	64	63	62	63	57	787	66			24
25	65	55	61	63	76	67	64	64	62	62	75	68	782	65			25
26	70	70	65	64	71	74	66	66	68	68	66	61	809	67			26
27	56	59	66	65	67	68	60	61	56	58	58	54	728	61			27
28	55	58	54	62	65	58	53	56	51	58	44	62	676	56			28
29	60	52	41	51	57	45	58	59	56	54	53	48	634	53			29
30	60	51	44	50	59	58	57	64	62	64	56	54	679	57			30
31	51	55	53	60	55	61	54	56	58	60	72	66	701	58			31
Sum	1695	1662	1642	1684	1736	1712	1770	1727	1730	1665	1700	1679	20402	1698	56.6	(30 days)	
Mean	56.5	55.4	54.7	56.1	57.9	57.1	59.0	57.6	57.7	55.5	56.7	56.0	680.2	1744	56.3	(31 days)	
													56.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 284

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	54	53	59	59	54	56	63	64	54	58	65	54	693	58			1
2	50	53	52	52	62	55	47	56	51	65	53	55	651	54			2
3	57	47	55	45	57	53	59	48	56	54	57	50	638	53			3
4	53	47	49	54	55	45	45	44	46	51	42	53	584	49			4
5	46	49	37	37	40	52	39	46	53	39	37	35	510	42			5
6	40	39	45	63	50	58	52	51	68	58	65	62	641	53			6
7	60	56	56	55	58	63	59	54	47	59	57	49	673	56			7
8	48	66	55	57	63	67	53	40	49	50	46	49	643	54			8
9	48	54	49	44	51	47	44	47	45	46	48	45	568	47			9
10	47	48	61	42	43	46	49	41	57	38	45	44	551	46			10
11	63	56	63	60	64	56	59	50	56	57	54	54	692	58			11
12	60	65	48	50	54	44	45	64	59	58	56	41	644	54			12
13	53	46	55	55	46	63	56	47	55	43	51	52	622	52			13
14	56	54	57	59									(226)	(56)	4		14
15																	15
16																	16
17							55	52	50	52	52	56	(317)	(53)	6		17
18	52	47	42	47	60	58	56	51	45	44	45	46	593	49			18
19	47	48	53	47	49	56	47	49	43	47	54	52	592	49			19
20	50	48	53	59	55	55	60	53	54	60	64	54	665	55			20
21	52	44	50	48	48	50	54	45	54	44	51	49	589	49			21
22	54	48	50	41	49	58	51	53	52	46	43	48	593	49			22
23	56	38	47	44	50	48	53	55	50	45	53	46	585	49			23
24	51	54	50					58	41	35	32	36	(357)	(45)	8		24
25	22	2	-2	8	18	27	17	18	23	24			(157)	(16)	10		25
26					32	33	49	50	44	33	27	23	(291)	(36)	8		26
27	29	40	32	42	40	46	44	40	42	44	38	44	481	40			27
28	43	40	42	40	48	46	45	46	50	44	55	51	550	46			28
29	46	52	52	53	50	60	58	62	66	57	58	48	662	55			29
30	59	61	59	58	64	58	62	62	54	56	53	58	704	59			30
31	52	52	48	54	49	52	61	57	58	46	57	56	642	54			31
Sum	1219	1197	1202	1196	1259	1282	1261	1225	1264	1209	1247	1195	14766	1230	51.2	(24 days)	
Mean	50.8	49.9	50.1	49.8	52.5	53.9	52.5	51.0	52.7	50.4	52.0	49.8	615.3	1436	49.5	(29 days)	
													51.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 285

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	57	50	51	55	56	62	57	67	65	62	67	65	714	60			1
2	59	58	69	61	68	63	69	75	64	70	57	58	771	64			2
3	57	66	55	61	62	55	62	59	55	53	60	52	697	58			3
4	51	49	47	59	53	64	63	62	55	60	44	52	659	55			4
5	51	62	58	61	66	55	63	63	59	66	63	59	726	60			5
6	57	59	60	65	57	66	66	62	58	49	51	55	705	59			6
7	60	60	57	62	47	60	54	56	66	56	42	46	666	56			7
8	52	56	56	49	53	57	62	63	55	52	55	55	665	55			8
9	52	47	56	53	49	50	52	58	58	53	53	62	643	54			9
10	57	59	57	58	59	64	76	79	62	80	75	75	801	67			10
11	68	61	72	68	61	70	75	63	63	64	63	49	777	65			11
12	56	47	52	51	54	66	55	53	48	54	38	51	625	52			12
13	49	40	41	51	42	50	54	46	55	47	51	35	561	47			13
14	45	52	50	43	47	46	50	51	58	45	53	54	594	50			14
15	42	44	48	48	54	53	42	52	47	50	61	46	587	49			15
16	50	51	53	55	63	58	60	52	56	51	56	59	664	55			16
17	59	55	60	58	71	64	55	58	56	60	60	57	713	59			17
18	42	44	45	59	47	56	57	46	54	48	51	48	597	50			18
19	52	47	44	44	47	48	58	57	45	60	54	53	609	51			19
20	42	39	38	43	49	39	50	55	57	55	56	49	572	48			20
21					49	61	58	53	53	42	51	58	(425)	(53)	8		21
22	50	51	52	56	52	58	50	46	47	53	48	65	618	52			22
23	37	46	52	55	61			63	58	57	63	51	(543)	(54)	10		23
24	47	53	51	54	63	57	63	65	66	56	56	70	701	58			24
25	54	60	65	55	63	70	79	68	69	69	66	69	787	66			25
26	66	63	72	69	63	63	74	70	68	67	70	68	813	68			26
27	60	66	69	70	62	68	64	65	60	62	62	65	773	64			27
28	60	69	67	71	69	70	71	66	74	74	76	77	844	70			28
29																	29
30																	30
31																	31
Sum	1395	1408	1445	1479	1477	1532	1581	1557	1520	1516	1488	1484	17882	1492	57.4	(26 days)	
Mean	53.6	54.2	55.6	56.9	56.8	58.9	60.8	59.9	58.5	58.3	57.3	57.1	687.9	1599	57.1	(28 days)	
													57.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 286

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	74	63	72	69	82	69	77	68	68	68	72	64	846	70			1
2	76	71	85		80	69	74	69	69	70	59	73	(795)	(72)	11		2
3	67	73	75	82	69	74	66	62	62	69	60	51	810	68			3
4	58	63	69	60						59	64	60	(433)	(62)	7		4
5	63	62	63	60	70	70	62	70	59	66	56	62	763	64			5
6	62	66	54	61	59	55	69	65	63	67	67	65	753	63			6
7	71	77	75										(223)	(74)	3		7
8																	8
9							51	52	47	48	60	49	(307)	(51)	6		9
10	45	56	59	60	51	58	61	61	66	66	53	51	687	57			10
11	58	62	49	61				62	63	48	62	64	(529)	(59)	9		11
12	72	72	70	71	79	79	73	69	67	72	65	63	852	71			12
13	64	64	70	67	69	64	71	71	67	54	62	55	778	65			13
14	67	54	66	61	66	57	61	58	64	57	60	61	732	61			14
15	58	65	63	60	58	71	69	70	66	65	67	66	778	65			15
16	75	74	73	82	81	75	79	74	64	68	61	56	862	72			16
17	60	71	71	57	65	68	70	58	60	56	53	60	749	62			17
18	53	48	52	57	51	60	63	67	64	59	65	69	708	59			18
19	64	63	71	65	75	73	73	75	77	68	76	64	844	70			19
20	75	72	78	76	81	76	79	69	77	67	60	77	887	74			20
21	63	72	62	62	68	69	63	61	63	60	57	62	762	64			21
22	55	54	56	65	58	63	63	61	62	64	54	58	713	59			22
23	61	60	60	64	62	63	62	66	62	53	60	52	725	60			23
24	59	58	62	62	59	67	61	61	53	61	54	49	706	59			24
25	52	53	43	47	56	60	59	55	48	50	46	40	609	51			25
26	49	48	45	55	49	54	44	48	43	46	42		(523)	(44)	11		26
27																	27
28					58	59	53	56	49	54	54	52	(435)	(54)	8		28
29	58	54	43	63	47	45	49	61	54	50	50	50	624	52			29
30	48	50				48	58	55	54	63	51	57	(484)	(54)	9		30
31	59	60	58	58	55	56	56	64	55	69	54	60	704	59			31
Sum	1306	1314	1321	1349	1361	1372	1386	1366	1321	1309	1252	1235	15892	1325	63.1	(21 days)	
Mean	62.2	62.6	62.9	64.2	64.8	65.3	66.0	65.0	62.9	62.3	59.6	58.8	7566	1795	61.9	(29 days)	
													63.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 287

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	61	58	69	64	64	74	65	71	64	60	67	59	776	65			1
2	57	56	59	71	60	64	57	66	69	53	62	59	733	61			2
3	64	74	60	58	47	67	60	64	66	65	58	58	741	62			3
4	61	61	60	53	68	69	62	67	59	61	58	61	740	62			4
5	56	51	54	55	57	60	54	46	48	52	52	60	645	54			5
6	50	51	53	60	61	57	56	62	57	62	64	57	690	58			6
7	63	64	64	67	65	71	69			62	59	63	(647)	(65)	10		7
8			71	76	66	58	57	65	65	66	67	61	(652)	(65)	10		8
9	60	69	70	54	59	52	67	67	65	55	55	61	734	61			9
10	58	60	61	59	49	60	64	54	56	62	60	58	701	58			10
11	42	52	47			50	45	49	46	50	56	54	(491)	(49)	10		11
12	43	45	44	41	47	59	54	49	34	11	8	17	452	38			12
13	15	5	20	15	17	22	28	29	18	34	26	22	251	21			13
14	21	28	30	28	30	31	37	22	37	30	39	40	373	31			14
15	38	29	25	52	37	34	41	55	35	33	42	43	464	39			15
16	45	52	47	54	49	55	55	58	59	53	61	62	650	54			16
17	53	55	54	47	58	56	58	56	57	55	46	53	648	54			17
18	62	60	51	58	54	61	54	54	48	51	56	58	667	56			18
19	60	68	60	67	53	63	60	56	63	62	56	57	725	60			19
20	63	57	51	58	68	49	58	67	54	57	59	60	701	58			20
21	62	62	59	60	55	61	69	72	60	66	58	59	743	62			21
22	67	70	58	65	51	52	65	70	62	70	49	45	724	60			22
23	49	55	58	55	52	52	57	56	57	51	45	57	644	54			23
24	63	64	59	62	54	61	65	61	61	52	53	54	709	59			24
25	58	58	54	50	50	51	64	51	51	55	52	47	641	53			25
26	55	62	56	50	61	55	56	54	64	65	60	60	698	58			26
27	60	54	57	58	60	62	61	58	54	55	61	58	698	58			27
28	49	55	61	46	55	66	64	66	52	50	57	56	677	56			28
29	64	58	55	53			54	47	54	55	50	45	(535)	(54)	10		29
30	52	49	48	50	46	55	54	49	51	44	42	44	584	49			30
31																	31
Sum	1382	1408	1378	1390	1362	1448	1485	1480	1401	1364	1346	1365	16809	1401	53.9	(26 days)	
Mean	53.2	54.2	53.0	53.5	52.4	55.7	57.1	56.9	53.9	52.5	51.8	52.5	6467	1634	54.5	(30 days)	
													53.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 288

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	46	39	45	43	41	45	44	45	48	42	41	39		518	43		1
2	41	43	36	38	45	42	45	45	55	50	46	43		529	44		2
3	40	42				49	54	51	52	50	51	42		(431)	(48)	9	3
4	45	53	47	63	56	49	48	50	47	49	50	46		603	50		4
5	46	45	50	45	41	46	51	46	47	56	42	44		559	47		5
6	48	48	45	44	52	52	52	56	52	46	50	48		593	49		6
7	51	49	56	52	50	66	53	44	56	59	56	64		656	55		7
8	63	50	50	46	49	59	59	57	54	57	47	45		636	53		8
9	53	47	55	51	51	50	56	51	47	45	39	35		580	48		9
10	47	51	50	47	48	40	50	53	48	53	60	43		590	49		10
11	46	54	53	44	41	36	50	45	49	47	52	48		565	47		11
12	46	37	35	40	54	41	32	28	12	18	19	33		395	33		12
13	30	29	40	29	29	30	30	38	32	38	38	37		400	33		13
14	46	34	42	47	40	41	53	42	39	34	43	43		504	42		14
15	38	35	40	38	51	36	37	43	44	45	46	40		493	41		15
16									44	43	50	50		(187)	(47)	4	16
17	52	46	46	50	47	55	47	38	40	50	45	42		558	46		17
18	38	51	47	45	47	44	46							(318)	(45)	7	18
19																	19
20																	20
21																	21
22																	22
23																	23
24																	24
25							54	70	59	61	56	65		(365)	(61)	6	25
26	56	54	57	65	70	62	57	60	65	59	54	63		722	60		26
27	58	70	60	61	63	65	71	70	69	70	65	63		785	65		27
28	63	54	57	62	58	55	60	64	61	67	62	63		726	60		28
29	67	56	61	58	71	67	68	60	47	57	62	59		733	61		29
30	68	62	60				58	57	60	58	51	47		(521)	(58)	9	30
31	43	45	51	41	43	54	54	48	52	52	53	45		581	48		31
Sum	985	939	976	964	1000	991	1017	983	964	994	970	943		11726	974	48.7 (20days)	
Mean	49.2	47.0	48.8	48.2	50.0	49.6	50.8	49.2	48.2	49.7	48.5	47.2		586.4	1233	49.3 (25days)	
														48.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 289

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	50	48	47	54	56	49	50	51	53	59	44	53		614	51		1
2	46	42	43	42	47	51	47	51	51	55	54	53		582	48		2
3	43	47			55	45	47	45	43	50	43	36		(454)	(45)	10	3
4	37	30	48	48	51	46	39	40	43	37	48	52		519	43		4
5	55	45	44	52	51	58	57	55	51	51	42	53		614	51		5
6	44	44	36	43	44					63	57	49		(380)	(48)	8	6
7	31	43	50	41	43				51	40	46	41		(386)	(43)	9	7
8	49	49	52	53	42					49	48	58		(400)	(50)	8	8
9	50	51	44	38	37	42	53	48	52	50	50	52		567	47		9
10	49	45			38	34	38	34	44	42	42	42		(408)	(41)	10	10
11	39	33	40	41	42	37	40	51	41	40	39	44		487	41		11
12	46	43	37	35	48	38	49	41	43	46	39	48		513	43		12
13	39	32			40	39	38	44	44	40	35	41		(392)	(39)	10	13
14	31	37	45	49	34	39	50	51	40	50	45	49		520	43		14
15	49	45	41	56	43	52	53	49	43	41	39	42		553	46		15
16	34	42	39	44	38	33	41	43	43	32	38	43		470	39		16
17	42	44	38	42	30	35	43	39	43	33	33	39		461	38		17
18	27	39	37	36	36	39	42	42	40					(338)	(38)	9	18
19																	19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
Sum	479	460	466	501	477	480	522	519	503	494	471	528		5900	490	44.5 (11days)	
Mean	43.5	41.8	42.4	45.5	43.4	43.6	47.5	47.2	45.7	44.9	42.8	48.0		536.3	794	44.1 (18 days)	
														44.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 290

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1																		1
2																		2
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19									57	36	46	36		(175)	(44)	4		19
20	43	37	45	45	45	42	38	43	48	46	46	40		518	43			20
21	37	42	57	42	44	52	52	48	49	46				(469)	(47)	10		21
22		49	50		45	38	49	51	47	44	43	40		(456)	(46)	10		22
23	40	44	40	38	42	44	41	48	44	52	47	41		521	43			23
24	45	44	46	41	49	52	48	55	44	49	52	45		570	48			24
25	51	43	32		36	33	39	46	41	45	50	42		(458)	(42)	11		25
26	40	41	41	50	44	40	37	44	44	44	42	35		504	42			26
27	44				45	51	37	45	52	54	42	52		(422)	(47)	9		27
28	46	40	40	45	53	41	41		41					(347)	(43)	8		28
29	49				46	48	54	45	48	50	42	39		(421)	(47)	9		29
30	49	48	58	52	55	50	61	57	48	45	45	48		616	51			30
31	46	45	52	45	49	47	48	43	51	52	53	46		577	48			31
Sum	263	259	282	271	284	275	275	290	279	288	285	255		3306	275	45.8	(6days)	
Mean	43.8	43.2	47.0	45.2	47.3	45.8	45.8	48.3	46.5	48.0	47.5	42.5		550.9	591	45.4	(13days)	
														45.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 291

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	43				58	48	53	48	54	50	50	43		(447)	(50)	9		1
2	43	52	48	51	54	55	47	50	53	45	42			(540)	(49)	11		2
3		25			17	35	26	39	30	31	29	31		(263)	(29)	9		3
4	22	34	17	33	35	33	29	35	43	31	21	22		355	30			4
5	25	35			40	34	45	41	41	35	22	33		(351)	(35)	10		5
6	33	30	32	39	31	23	38	40	43	28	33	33		403	34			6
7	34	33	35	32	39	30	37	36	35	29	34	41		415	35			7
8	43	31	36		43	36	43	44	43	40	46	39		(444)	(40)	11		8
9	38	42	41	37	43	41	50	42	39	38	28	40		479	40			9
10	48	42			52	38	44	36	36	37	38	31		(402)	(40)	10		10
11	42	44	49	44	42	45	40	44	46	38	40	42		516	43			11
12	43	49	42	46	48	43	48	54	53	42	48	40		556	46			12
13	56	42	47	40	40	58	53	41	41	40	48	42		548	46			13
14	50	44	56	45	49	48	51	48	45	49	48	46		579	48			14
15	59	42	51		52	44	53	48	38	46	38	38		(509)	(46)	11		15
16	46	43	47	47	45	51	51	53	45	51	41	44		564	47			16
17					56	51	54	45	50	45	48	45		(394)	(49)	8		17
18	52	49	48	54	42	56	56	52	55	42	52	46		604	50			18
19	43	43	42		44	38	47	61	47	46	52	46		(509)	(46)	11		19
20	39	43	53	48	47	40	54	52	49	43	43	31		542	45			20
21	41	45	45	49	48	41	50	45	41	42	40	41		528	44			21
22	38	44			44	40	43	51	35	47	38	49		(429)	(43)	10		22
23	42	47	42	43	51	44	46	46	50	55	40			(506)	(46)	11		23
24					51	49	55	50	44	42	52	45		(388)	(48)	8		24
25		48	36	47	50									(181)	(45)	4		25
26							52	44				45		(141)	(47)	3		26
27	44	38	46	43	51	41	42	48	47	43	50	51		544	45			27
28	51	39	45	47	48	57	38	52	52	47				(476)	(48)	10		28
29	47	48			46	52	53	52	55	48	42	57		(500)	(50)	10		29
30	43	42	46	50	46	50	49	54	48	50	40	47		565	47			30
31	55	53	57		55	51	55	49	62	49	50	48		(584)	(53)	11		31
Sum	583	578	604	607	606	600	648	644	630	566	566	566		7198	600	42.9	(14days)	
Mean	41.6	41.3	43.1	43.4	43.3	42.9	46.3	46.0	45.0	40.4	40.4	40.4		514.1	1364	44.0	(31days)	
														42.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 292

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	49	42	51	37	54	46	43	56	50	41	45	43	557	46			1
2	44	41	51		52	50	48	49	55	36	47	43	(516)	(47)	11		2
3	41	40	44	40	49	61	58	61	54	52	56	51	607	51			3
4	47	38			49	35	46	37					(252)	(42)	6		4
5					42	52	49	51	46	39	50	45	(374)	(47)	8		5
6	47	44	46	45	45	56	56	45	53	56	52	51	596	50			6
7	47	46	49	46	39	50	46	54	46	43	49	57	572	48			7
8	50	48	47	43	55	48	54	48	53	59	52	61	618	52			8
9	47	53	61	59	68	49	60	53	54	63	52	58	677	56			9
10	53	56	56	55	60	62	55	56	57	50	58	49	667	56			10
11	51	53	46	52	49	48	55	50	44	50	49	48	595	50			11
12	45	43	41	46	46	53	54	44	51	50	50	56	579	48			12
13	39	43	50	47	45	52	45	52	44	47	50	44	558	46			13
14	52	40	49	52	43	47	48	59	47	48	46	47	578	48			14
15	44	42	45	48	41	46	54	46	57	45	47	51	566	47			15
16	47	48	45		41	49	49	50	48	45	42	41	(505)	(46)	11		16
17	51	51	53	44	43	52	41	36	45	36	38	42	532	44			17
18	46	37	41	38	38	43	42	49	45	45	41	44	509	42			18
19	50	48	38	40	49	54	53	63	58	55	60	56	624	52			19
20	57	52	54	58	62	64	62	59	56	62	47	54	687	57			20
21	62		58		54	48	56	66	59	61	54	54	(572)	(57)	10		21
22	55	49	51	48	51	47	43	55	62	56	64	63	644	54			22
23	58	59	59										(176)	(59)	3		23
24							52	46	57	49	52	44	(300)	(50)	6		24
25	41	43	40	49	47	53	53	50					(376)	(47)	8		25
26						50	50	52	38	44	56	49	(339)	(48)	7		26
27	54	49	49	45	48	53	46	49	57	55	51	63	619	52			27
28	53	59	53	52	58	51	59	49	55	56	54	57	656	55			28
29	57	56	58	59	67	65	65	60	62	59	59	55	722	60			29
30	59	58	67	66	68	63	55	52	49	46	39	46	668	56			30
31																	31
Sum	1041	1009	1049	1020	1078	1110	1094	1096	1099	1074	1059	1096	12831	1070	51.0	(21days)	
Mean	49.9	48.0	50.0	48.6	51.3	52.9	52.1	52.2	52.3	51.0	50.4	52.2	610.9	1513	50.4	(30days)	
													50.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 293

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	46	42	47	44	47	44	46	50	64	49	50	52	581	48			1
2	52	49	48	42	48	46	45	54	55	51	46	56	592	48			2
3	56	57	50	44	54	55	58	46	55	46	49	53	623	54			3
4	49	46	44	45	54	39	46	47	43	47	45	46	551	46			4
5	49	40	40	40	43	53	42	47	43	54	42	44	537	45			5
6	40	47	42	43	38	44	48	50	50	50	46	46	544	45			6
7	41	40	45	45									(171)	(43)	4		7
8	52	42	50	48	51	55	52	45	49	49	51	47	591	49			8
9	51	49	48	47	53	47	53	49	56	64	49	54	620	52			9
10	55	43	49	49	54	47	46	58	55	53	48	54	611	51			10
11	55	50	48	54	51	59	53	50	53	58	44	45	620	52			11
12	52	53	54	46	62	50	60	60	49	56	59	54	655	55			12
13	54	57	67	39	43	58	52	64	57	52	46	40	619	52			13
14	40	41	51	45	48	40	30	34	41	41	51	41	503	42			14
15	42	45	49	37	38	43	34	30	30	28	27	30	433	36			15
16	25	38	30	41	37	41	41	36	37	40	40	41	447	37			16
17	40	38	43	53	50	49	53	38	50	35	46	41	536	45			17
18	38	41	46	46	47	50	43	52	45	45	50	55	558	46			18
19	40	39	43	37	44	44	47	43	51	53	51	49	539	45			19
20	45	40	46	43	43	48	49	52	48	53	48	47	562	47			20
21	41	45	36	48	42	44	41	41	45	44	46	51	524	44			21
22	35	40	41	44	37	37	42	42	46	44	42	46	496	41			22
23	53	35	48	51	50	52	46	55	54	58	47	54	603	50			23
24	46	35	44	46	45	54	52	53	52	51	52	52	582	48			24
25	44	45	41	37	47	55	55	60	56	56	47	54	597	50			25
26	46	48	39	61	47	60	52	54	56	57	63	58	641	53			26
27	47	55	53	58	48	60	48	44	50	45	48	45	601	50			27
28	36	41	42	46	47	40	42	47	46	54	52	42	535	45			28
29	39	38	44	32	46	48	50	52	50	48	48	44	539	45			29
30	36	48	42	37	44	45	54	46	59	55	50	51	567	47			30
31	51	51	44	52	51	50	60	59	56	56	47	69	636	53			31
Sum	1355	1338	1359	1355	1409	1457	1440	1458	1501	1492	1430	1449	17043	1421	47.4	(30days)	
Mean	45.2	44.6	45.3	45.2	47.0	48.6	48.0	48.6	50.0	49.7	47.7	48.3	568.2	1464	47.2	(31days)	
													47.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 294

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	54	55	62	56	52	58	67	63	64	54	64	68	717	60			1
2	57	56	57	63	63	54	53	56	56	61	62	60	698	58			2
3	57	60	59	57	60	62	65	70	64	58	70	63	745	62			3
4	66	62	65	63	66	61	66	73	69	68	59	68	786	65			4
5	62	59	68	65	68	67	67	71	66	59	58	61	771	64			5
6	74	58	60	60	61	61	56	78	53	59	61	53	734	61			6
7	63	70	63	58	64	44	49	57	46	60	54	57	685	57			7
8	61	62	71	56	58	54	60	59	54	54	48	61	698	58			8
9	55	63	58	54	62	56	61	51	58	47	52	57	675	56			9
10	46	53	45	49	45	54	49	64	54	46	53	49	607	51			10
11	52	50	53	63	46	53	52	60	48	50	52	53	632	53			11
12	41	50	52	50	51	56	45	53	54	58	58	44	612	51			12
13	54	50	46	53	60	58	56	58	65	57	47	56	660	55			13
14	51	51	56	63	43	57	56	56	54	51	63	50	651	54			14
15	59	60	61	65	57	63	59	56	68	53	56	55	712	59			15
16	60	64	56	50	62	64	69	62	61	61	60	62	731	61			16
17	70	67	58	69	70	76	79	72	65	75	66	67	834	70			17
18	80	74	80	73	79	74	80	78	72	67	70	62	889	74			18
19	72	73	109	326	139	100	74	72	76	68	66	68	1243	104			19
20	64	61	60	48	64	59	63	61	63	59	64	60	726	60			20
21	65	58	71	63	68	75	67	73	76	65	74	66	821	68			21
22	66	75	69	78	73	71	70	70	72	67	70	71	852	71			22
23	70	65	72	68	63	65	68	66	68	71	65	75	816	68			23
24	72	60	66	68	72	77	73	80	82	62	73	80	865	72			24
25	67	71	72	82	86	88	90	90	76	84	85	89	980	82			25
26	76	82	75	75	74	76	74	80	71	76	76	79	914	76			26
27	74	77	74	69	68	71	76	70	71	65	65	61	841	70			27
28	77	64			70	69	78	59	69	70	59	63	(678)	(68)	10		28
29	62	55	48	56	57	61	58	64	52	61	62	63	699	58			29
30	65	71	77	70	68	71	69	65	63	70	68	72	829	69			30
31																	31
Sum	1815	1812	1863	2070	1899	1886	1871	1928	1841	1786	1822	1830	22423	1867	64.4	(29 days)	
Mean	62.6	62.5	64.2	71.4	65.5	65.0	64.5	66.5	63.5	61.6	62.8	63.1	773.2	1935	64.5	(30 days)	
													64.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 295

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1949

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	58	61	64	73	64	69	62	64	63	63	65	57	763	64			1
2	62	63	62	62	76	86	80	87	84	77	82	83	904	75			2
3	80	78	78	72	66	75	74	78	68	91	74	74	908	76			3
4	73	74	74	71	69	69	73	77	79	87	78	86	910	76			4
5	73	72	85	84	99	86	90	91	93	79	95	77	1024	85			5
6	78	81	77	78	77	83	74	69	70	71	83	85	926	77			6
7	77	72	72	66	76	76	88	77	80	94	90	89	957	80			7
8	83	75	85	95	86	83	86	85	80	83	89	88	1018	85			8
9	86	75	74	84	70	71	72	77	68	73	73	71	894	74			9
10	82												(82)	(82)	1		10
11																	11
12																	12
13																	13
14																	14
15																	15
16									71	74	68	65	(278)	(69)	4		16
17	64	64	67	71	60	69	72						(467)	(67)	7		17
18																	18
19					80	78	72	74	64	68	73	79	(588)	(74)	8		19
20	74	75	81	75	76	73	77	86	69	69	70	68	893	74			20
21	65	64	61	66	65	68	64	61	56	55	58	51	734	61			21
22	58	50	57	51	53	45	46	53	48	53	61	54	629	52			22
23	51	50	57	54	52	60	57	54	63	57	70	64	689	57			23
24	64	59	73	61	67	57	64	64	63	67	57	60	756	63			24
25	57	59	62	46	70	67	64	53	65	65	61	51	710	59			25
26	54	51	47	54	55	64	65	53	54	60	45	56	658	55			26
27	49	46	54	52	51	57	57	57	59	65	66	65	678	56			27
28	73	71	72	78	80	83	81	88	86	86	80	83	961	80			28
29	75	79	81	82	86	94	86	86	90	86	94	85	1024	85			29
30	88	84	85	80					79	79	81	83	(659)	(82)	8		30
31	78	70	80	81	85	81	82	75	75	72	74	68	921	77			31
Sum	1368	1325	1396	1385	1423	1437	1442	1435	1413	1453	1465	1415	16957	1411	70.6	(20 days)	
Mean	68.4	66.2	69.8	69.2	71.2	71.8	72.1	71.8	70.6	72.6	73.2	70.8	847.7	1785	71.4	(25 days)	
													70.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 296

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	62	77												(139)	(70)^{2}		1
2						60	55	62	63	66	67	66		(439)	(63)^{7}		2
3	57	65	61	57	65	56	67	55	58	59	55	57		712	59		3
4	61	63	60	58	55	57	55	54	64	49	59	65		700	58		4
5	57	65	57	55	57	57	59	53	57	55	51	54		677	56		5
6	60	48	47	60	53	49	54	53	52	55	48	50		629	52		6
7	52	57	58	54	65	68	70	72	70	65	67	71		769	64		7
8	75	72	67	67	73	67	68	72	65	65	67	66		824	69		8
9	57	60	59	67	58	65	62	56	62	61	65	63		735	61		9
10	62	62	57	59	50	65	55	61	56	58	58	63		706	59		10
11	64	56	59	58	60	65	65	61	70	55	70	71		754	63		11
12	66	59	58	52	62	61	67	66	70	62	55	60		738	62		12
13	64	57	60	57	59	58	56	61	57	56	47	55		687	57		13
14	60	56	58	56	61	65	59	58	60	57	62	55		707	59		14
15	68	55	70	60	56	54	63	57	55	62	58	63		721	60		15
16	61	55	58	51	69	66	62	63	68	70	68	69		760	63		16
17	73	71	67	67	67	67	67	77	67	67	54	64		808	67		17
18	61	62	59	65	65	77	76	56	63	58	56	67		765	64		18
19	59	66	61	69	68	71	73	71	77	69	65	76		825	69		19
20	68	66	75	75	70	78	71	70	69	78	72	76		868	72		20
21	64	67	70	73	71	65	66	71	79	77	70	72		845	70		21
22	76	71	72	69	75	74	81	74	73	66	71	65		867	72		22
23	73	68	64	64	65	59	70	79	72	60	68	70		812	68		23
24	73	67	57	64	69	69	71	73	69	66	57	58		793	66		24
25	68	64	59	61	66	64	67	62	61	55	65	58		750	62		25
26	56	59	63	57	62	63	63	59	61	55	64	61		723	60		26
27	55	65	65	60	66	67	67	68	69	71	60	71		784	65		27
28	72	69	77	65	74	68	72	69	75	71	61	66		839	70		28
29	62	63	61	58	62	56	69	56	60	54	57	60		718	60		29
30	54	53	58	61	58	53	60	61	64	68	70	66		726	60		30
31	61	63	52	51	56	63	60	64	62	62	60	58		712	59		31
Sum	1839	1804	1789	1770	1837	1847	1895	1852	1885	1806	1780	1850		21954	1826	63.0 (29 days)	
Mean	63.4	62.2	61.5	61.0	63.3	63.7	65.3	63.9	65.0	62.3	61.4	63.8		7568	1959	63.2 (31 days)	
														63.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 297

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	61	53	56	59	56	60	54	76	58	58	64	56		711	59		1
2	57	62	68	54	56	62	57	56	64	55				(591)	(59)^{10}		2
3					71	61	71	69	69	65	62	61		(529)	(66)^{8}		3
4	56	54	64	63	63	62	67	65	68	76	68	63		769	64		4
5	71	61	70	62	70	72	71	66	69	66	67	68		813	68		5
6	72	59	61	62	57	56	58	64	66	59	62	60		736	61		6
7	64	72	71	64	68	66	65	67	68	70	74	81		830	69		7
8	72	69	67	72	63	68	73	65	61	62	66	67		805	67		8
9	68	58	55	71	62	66	65	65	63	65	66	68		772	64		9
10	62	68	66	58	62	63	67	72	70	65	70	64		787	66		10
11	67	77	64	68	71	67	66	71	66	69	60	68		814	68		11
12	64	62	66	57	66	66	72	65	71	64	68	62		783	65		12
13	60	67	65	64	64	67	65	67	58	62	55	66		760	63		13
14	59	62	57	60	56	56	69	63	59	63	46	63		713	59		14
15	64	59	74	61	75	68	68	76	66	77	68	75		831	69		15
16	68	72	72	80	80	82	78	80	83	75	82	76		928	77		16
17	73	81	79	88	85	81	75	81	82	83	82	86		976	81		17
18	86	83	73	77	80	77	76	80	73	75	65	70		915	76		18
19	75	72	79	73	83	79	79	78	86	75	87	82		948	79		19
20	82	88	86	94	82	87	84	73	66	65	59	65		931	78		20
21	71	59	71	71	68	74	76	71	69	64	59	58		811	68		21
22	60	64	65	68	67	69	71	66	57	57	54	64		762	64		22
23	61	57	71	75	76	68	74	67	60	57	50	39		755	63		23
24	42	42	54											(138)	(46)^{3}		24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
Sum	1416	1397	1432	1447	1454	1454	1473	1478	1419	1407	1372	1401		17150	1425	67.9 (21days)	
Mean	67.4	66.2	68.2	68.9	69.2	69.2	70.1	70.4	67.6	67.0	65.3	66.7		8162	1596	66.5 (24 days)	
														680			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 298

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	62	63	59	51	68	70	67	72	74	80	74	85		825	69			1
2	76	80	83	79	84	85	92	84	86	82	78	76		985	82			2
3	83	82	75	76	77	70	75	87	81	72	72	76		926	77			3
4	78	75	80	77	63	74	75	75	61	66	69	65		858	72			4
5	73	69	69	68	67	64	70	63	72	64	65	68		812	68			5
6	63	73	65	61	62	68	72	75	72	66	76	71		824	69			6
7	69	64	74	65	62	61	60	66	61	62	62	70		776	65			7
8	63	65	66	60	57	67	65	62	65	73	76	71		790	66			8
9	74	75	77	75	71	75	71	64	77	74	63	67		863	72			9
10	81	76	66	72		79	71	76	65	62	71	73		(792)	(72)	11		10
11	68	68	67	62	56	57	72	64	71	62	60	59		766	64			11
12	56	63	56	59	53	63	63	60	57	58	57	59		704	59			12
13	54	61	69		72	64	57	75	66	63	69	67		(717)	(65)	11		13
14	68	65	73	80	77	85	82	86	84	82				(782)	(78)	10		14
15									74	69	60	55		(258)	(64)	4		15
16	70	67	65	62	67	67	84	84	75	73	74	80		868	72			16
17	73	78	81		86	85	88	81	79	78	66	71		(866)	(78)	11		17
18	72	77	73	81	82	90	87	85	72	71	80	74		944	79			18
19	73	77	86	74	80	78	82	68	68	65	66	66		883	74			19
20	68	72	78	61	72	70	67	71	74	74	73	76		856	71			20
21	66	64	63	69	60	73	64	70	75	65	74	77		820	68			21
22	71	78	70	63	75	74	83	83	80	74	73	84		908	76			22
23	71	85	77	85	83	84	88	86	65	80	75	73		972	81			23
24	73	86	77	68	76	68	72	69	69	79	70	80		887	74			24
25	76	83	82	76	79	74	80	81	78	79	72	84		944	79			25
26	78	68	71	81	74	74	74	75	75	51	75	62		858	72			26
27	65	64	70	58	57	62	64	61	61	54	58	60		734	61			27
28	64	63	58	60	63	65	69	69	56	54	65	68		754	63			28
29	59	62	60	68	68	70	68	70	67	67	64	70		793	66			29
30	73	73	69	68	69	73	68	72	74	74	70	74		857	71			30
31	72	59	72	67			68	86	72	68	80	69		(714)	(71)	10		31
Sum	1744	1796	1770	1707	1725	1776	1832	1816	1786	1719	1741	1795		21207	1770	70.8	(25days)	
Mean	69.8	71.8	70.8	68.3	69.0	71.0	73.3	72.6	71.4	68.8	69.6	71.8		848.2	2198	70.9	(31days)	
														70.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 299

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	75	61	69	71	68	74	72	69	69	79	71	69		847	71			1
2	77	68	70											(215)	(72)	3		2
3					64	64	57	62	59	51	65	58		(480)	(60)	8		3
4	59	61	51	68	57	59	57	62	62	62	56	55		709	59			4
5	64	65	61	64	65	64	61	71	68	67	64	61		775	65			5
6	67	67	63	72	66	76	78	72	82	72	72	77		864	72			6
7	74	80	69	79	78	69	76	78	67	72	73	63		878	73			7
8	64	69	70	76	82	82	73	75	72	60	62	66		851	71			8
9	76	70	75	76	80	76	75	75	78	66	68	69		884	74			9
10	76	75	66	67	69	65	73	62	69	56	66	72		816	68			10
11	64	74	66	71	63	66	69	68	74	68	70	72		825	69			11
12	78	79	72	80	83	79	86	87	80	81	82	79		966	80			12
13	72	82	76	77	93	87	89	84	84	86	93	81		1004	84			13
14	80	89	84	87	87	85	85	83	77	74	76	82		989	82			14
15	79	79	86	88	86	93	81	76	77	80	69	80		974	81			15
16	77	78	72	79	68	78	76	78	72	74	75	62		889	74			16
17	69	71	71	72	68	67	74	61	68	67	66	56		810	68			17
18	73	68	67	70	71	72	65	63	72	69	62	67		819	68			18
19	66	67	70	71	63	69	67	68	66	61	67	60		795	66			19
20	70	73	80	70	77	76	77	82	77	77	78	77		914	76			20
21	74	85	76	82	88	84								(489)	(82)	6		21
22					77	73	74	73	76	76	71	71		(591)	(74)	8		22
23	58	70	67	64	72	70	71	71	65	58	66	59		791	66			23
24	53	54	62	60	65	61	72	65	66	59	66	63		746	62			24
25	60	64	66	58	62	56	68	64	69	63	66	58		754	63			25
26	59	64	64	60	61	58	68	72	64	68	63	67		768	64			26
27	66	62	63	71	64	71	75	71	74	65	70	61		813	68			27
28	58	68	70	71	72	67	69	63	62	59	70	70		799	67			28
29	63	65	68	64	63	69	58	56	57	56	66	55		740	62			29
30	60	59	66	65	58	54	56	54	69	58	62	62		723	60			30
31																		31
Sum	1760	1814	1794	1851	1841	1843	1871	1830	1840	1757	1799	1743		21743	1813	69.7	(26 days)	
Mean	67.7	69.8	69.6	71.2	70.8	70.8	72.0	70.4	70.8	67.6	69.2	67.0		836.3	2101	70.0	(30 days)	
														69.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 300

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	48	59	61	53	47	48	54	50	56	56	57	58		647	54		1
2	51	58	59	49	54	60	59	57	46	57	50	59		659	55		2
3	52	52	61	61	56	56	50	53	57	55	57	48		658	55		3
4	51	54	55	55	59	53	55	54	55	46	50	57		644	54		4
5	58	58	52	53	58	59	62	61	47	49	50	51		658	55		5
6	46	51	55	54	56	68	56	54	47	58	55	53		653	54		6
7	61	53	54	60	66	62	59	68	62	61	64	66		736	61		7
8	67	65	68	74	72	77	68	67	58	65	70	68		819	68		8
9	62	63	65	64	62	63	50	57	47	50	54	62		699	58		9
10	56	48	55	58	53	59	52	46	54	46	52	48		627	52		10
11	59	52	57	62	58	60	58	58	59	61	57	62		703	59		11
12	60	53	53	61	59	53	63	65	61	57	62	54		701	58		12
13	56	62	61	61	58	57	67	70	57	63	63	68		743	62		13
14	60	52	61	64	63	61	63	56	64	62	57	58		721	60		14
15	63	64	73	60	64	72	71	65	57	61	62	68		780	65		15
16	64	64	59	55	61	60	63	65	59	56	62	62		730	61		16
17	66	58	60	60	62	58	62	53	62	50	52	58		701	58		17
18	64	68	66	61	69	67	66	71	68	58	64	60		782	65		18
19	64	73	73											(210)	(70)[3]		19
20																	20
21																	21
22					63	68	64	57	54	58	36	42		(442)	(55)[8]		22
23	44	50	54	57	44	54	47	50	53	54	43	50		600	50		23
24	45	49	55	49	46	58	59	51	50	54	48	47		611	51		24
25	63	59	52	57	57	55	51	55	53	57	56	59		674	56		25
26	53	51	53	51	47	59	55	57	55	49	50	53		633	53		26
27	57	58	56	58	60	64	63	53	56	42	45	55		667	56		27
28	59			61	48	56	57	48	54	46	48	51		(528)	(53)[10]		28
29	51	46	44	56	55	49	59	59	46	45	51	51		612	51		29
30	49	48	54	56	58	57	50	52	54	60	50	48		636	53		30
31	52	59	57	46	54	56	51	58	44	48	49	49		623	52		31
Sum	1458	1454	1500	1495	1498	1545	1513	1505	1427	1420	1430	1472		17717	1476	56.8 (26days)	
Mean	56.0	55.8	57.7	57.6	57.6	59.4	58.2	57.7	54.9	54.6	55.0	56.6		681.1	1654	57.0 (29days)	
														56.8			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS: THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 301

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean		Day
1	52	51	58	52	63	55	58	51	43	49	50	49		631	53		1
2	53	51	52											(156)	(52)[3]		2
3	48	49	56	51	57	55	54	53	54	62	45	53		637	53		3
4																	4
5									57	62	56	61		(236)	(59)[4]		5
6	46	58	57	69	56	59	51	51	51	50	58	60		666	56		6
7	50	49	59	54	49	58	61	51	57	42	49	45		624	52		7
8	54	44	55	59	50	57	58	59	56	63	51	57		663	55		8
9	57	55	55	55	60	49	60	53	58	56	55	51		664	55		9
10	56	64	52	60	59	56	58	58	55	53	51	55		677	56		10
11	52	64	55	64	62	67	66	68	62	64	64	56		744	62		11
12	63	59	64	59	64	61	58	61	61	63	63	54		730	61		12
13	64	66	61	64	56	67	68	61	58	54	59	59		737	61		13
14	63	58	58	56	61	52	63	65	62	50	48	59		695	58		14
15	45	57	63	55	64	64	55	66	56	60	60	56		701	58		15
16	62	57	56	59	55	57	60	57	55	56	47	59		680	57		16
17	54	52	55	59	52	59	56	50	59	60	65	61		682	57		17
18	54	52	54	60	64	53	54	55	57	52	51	52		658	55		18
19	53	57	67	52	51	49	44	57	53	57	50	51		641	53		19
20	45	45	49	54	51	50	48	55	53	52	55	56		613	51		20
21	48	59	46	51	62	54	55	52	62	64	51	56		660	55		21
22	57	45	53	59	55	64	50	64	65	59	53	55		679	57		22
23	55	51	57	61	51	62	46	58	49	53	40	38		621	52		23
24	46	44	49	43	38	47	33	43	36	33	34	43		489	41		24
25	32	31	39	43	42	34	47	39	41	41	37	53		479	40		25
26	34	40	40	43	30	44	34	44	38	28	42	45		462	39		26
27	41	37	38	48	44	47	50	50	45	50	46	52		548	46		27
28	44	40	44	42	50	42	49	44	54	44	42	44		539	45		28
29	44	45	58	53	52	54	57	45	57	46	49	43		603	50		29
30	51	52	44	43	52	42	52	45	49	39	40	44		553	46		30
31																	31
Sum	1370	1381	1442	1468	1450	1458	1445	1455	1446	1400	1355	1406		17076	1424	52.7 (27days)	
Mean	50.7	51.1	53.4	54.4	53.7	54.0	53.5	53.9	53.6	51.9	50.2	52.1		632.5	1535	52.9 (29 days)	
														52.7			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 302

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	36	41	39	50	37	50	44	53	43	46	41	43	523	44		1
2	56	38	41	42	51	40	38	48	46	43	37	47	527	44		2
3	51	45	55	49	49								(249)	(50)	5	3
4																4
5							37	44	45	45	48	37	(256)	(43)	6	5
6	38	48	45	38	55	45	51	52	46	48	53	52	571	48		6
7	51	47	44	52			54	53	49	44	42	55	(491)	(49)	10	7
8	56	48	54	41	59	53	53	56	55	46	47	45	613	51		8
9	49	59	53	61	54	64	60	60	53	49	55	59	676	56		9
10	44	41	49	39	53	59	55	47	58	44	43	48	580	48		10
11	41	48	45	53	44	51	48	47	57	45	55	50	584	49		11
12	60	61	63	47	56	50	61	56	48	51	57	49	659	55		12
13	53	43	50	42	51	51	43	47	47	47	46	43	563	47		13
14	40	48	56	54	56	58	49	51	53	50	61	54	630	52		14
15	48	63	49										(160)	(53)	3	15
16																16
17																17
18																18
19								50	50	59	51	48	(258)	(52)	5	19
20	62	44	52	47	50	52	47	50	40	53	48	52	597	50		20
21	48	46	46	46	48	55	56	50	52	48	44	46	585	49		21
22	47	40	49	41	37	34	43	39	50	40	52	43	515	43		22
23	42	44	40	36	45	52	41	46	34	33	40	44	497	42		23
24	41	41	32	44	38	30	44	31	31	40	36	28	436	36		24
25	33	42	40	35	37	43	37	44	42	48	46	33	480	40		25
26	40	46	42	47	42	44	53	51	53	47	45	46	556	46		26
27	46	47	47	44	43	53	48	56	50	54	46	46	580	48		27
28	52	48	62	63	55	56	57	48	47	42	43	36	609	51		28
29	49	45	50	51	45	45	61	60	42	54	56	48	606	50		29
30	48	41	39	47	52	47	52	52	45	45	45	46	559	47		30
31	44	45	38	37	50	39	50	47	46	40	45	44	525	44		31
Sum	1025	1004	1032	1005	1058	1071	1091	1091	1038	1013	1041	1002	12471	1040	47.3 (22days)	
Mean	46.6	45.5	46.9	45.7	48.1	48.7	49.6	49.6	47.2	46.0	47.3	45.5	566.7	1287	47.7 (27days)	
													47.2			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 303

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	42	44	48	35	41	44	49	44	43	44	44	42	520	43		1
2	40	43	32	52	38	50	51	60	51	45	48	37	547	46		2
3	41	36	44	28	39	43	51	52	50	44	47	40	515	43		3
4	40	49	43	46	37	50	46	46	47	44	39	47	534	44		4
5	53	46	50	50	46	46	51	42	45	52	48	48	577	48		5
6	50	49	52	48	51	49	63	48	53	53	48	48	612	51		6
7	46	58	48	48	49	56	50	56	45	49	48	48	601	50		7
8	44	44	39	44	41	47	37	40	34	53	41	37	501	42		8
9	46	42	51	44	46	41	41	44	40	38	37	47	517	43		9
10	42	36	41	42	47	47	47	43	43	53	44	52	537	45		10
11	50	52	54	47	51	51	49	50	57	51	49	60	621	52		11
12	49	45	55	57	56	47	54	56	55	57	65	56	652	54		12
13	52	49	59	53	56	46	52	54	64	61	59	59	664	55		13
14	63	58	58	64	62	55	56	53	59	55	59	60	702	58		14
15	57	61	60	52	48	48	56	47	54	55	54	52	644	54		15
16	51	47	56	54	55	59	51	51	50	61	51	51	637	53		16
17	62	50	59	48	57	51	53	56	64	47	50	47	634	53		17
18	47	49	51	51	54	52	57	56	53	57	44	46	617	51		18
19	39	48	46	48	51	43	57	45	43	49	29	34	532	44		19
20	38	37	47	48	49	47	45	52	38	53	50	48	552	46		20
21	49	41	48	54	48	55	61	53	57	51	40	52	609	51		21
22	41	51	48	49	49	55	60	52	48	57	41	59	610	51		22
23	56	49	52	50	54	47	46	56	43	48	49	50	600	50		23
24	55	37	48	44	51	55	50	50	50	52	58	58	608	51		24
25	52	54	52	56	54	60	60	56	51	56	49	53	653	54		25
26	54	53	54	51	55	51	52	60	54	60	56	48	648	54		26
27	56	51	51	53	53	49	56	58	58	59	55	53	652	54		27
28	50	48	57	55	61	56	52	46	49	49	47	47	617	51		28
29	50	56	45	53	46	49	53	53	51	48	51	52	607	51		29
30	49	46	50	49	60	54	58	52	57	59	54	55	643	54		30
31	49	48	43	52	58	56	55	50	46	41	51	45	594	50		31
Sum	1513	1477	1541	1525	1563	1559	1619	1581	1542	1601	1505	1531	18557	1546	49.9 (31 days)	
Mean	48.8	47.6	49.7	49.2	50.4	50.3	52.2	51.0	49.7	51.6	48.5	49.4	598.4			
													49.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 304

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	39	45	36	32	46	44	45	43	41	45	39	44	499	42		1
2	40	38	42	40	44	49	41	40	48	50	48	49	529	44		2
3																3
4																4
5																5
6																6
7																7
8																8
9	43	50	48	43	42	42	35	41	44	34	42	49	513	43		9
10	54	50	43	42	40	46	44	43	41	33	46	39	521	43		10
11	53	42	53	54	46	49	46	49	46	55	45	45	583	49		11
12	46	53	57	53	47	52	51	50	52	54	43	49	607	51		12
13	48	52	67	62	47	49	59	58	46	57	52	62	649	54		13
14	51	58	51	53	54	61	61	52	49	49	45	43	627	52		14
15	57	46	50	50	56	51	50	47	49	54	53	53	616	51		15
16	51	54	41	52	52	54	48	54	58	55	47	50	616	51		16
17	54	49	54	56	60	50	57	50	48	44	56	52	630	52		17
18	40	46	56	53	53	60	58	47	47	43	42	43	588	49		18
19	51	42	41	44	52	47	41	52	53	48	51	53	575	48		19
20	51	48	52	44	48	50	54	52	48	44	53	55	599	50		20
21	45	36	53	52	50	45	60	56	51	50	55	56	609	51		21
22	48	52	51	52	57	54	52	62	63	54	52	68	665	55		22
23	60	66	52	65	57	53	58	71	64	56	50	59	711	59		23
24	63	64	59	67	63	58	61	65	57	58	54	55	724	60		24
25	59	50	55	57	47	47	45	52	46	51	40	44	593	49		25
26	45	42	49	38	46	42	39	44	40	34	43	37	499	42		26
27	33	36	38	33	55	41	47	43	44	42	37	40	489	41		27
28	41	40	41	36	46	45	31	40	44	39	35	39	477	40		28
29	44	38	39	32	39	37	39	39	40	43	38	47	475	40		29
30	42	46	47	38	52	47	49	51	48	45	48	40	553	46		30
31																31
Sum	1158	1143	1165	1148	1199	1173	1171	1201	1167	1137	1114	1171	13947	1162	48.4 (24 days)	
Mean	48.3	47.6	48.5	47.8	50.0	48.9	48.8	50.0	48.6	47.4	46.4	48.8	581.1			
													48.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 305

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	40	50	51	35	54	50	39	40	46	47	35	49	536	45		1
2	42	43	44	49	49	43	43	44	42	35	35	46	515	43		2
3	37	42	43	41	44	47	48	50	43	45	42	45	527	44		3
4	55	63	52	53	55	54	58	60	54	61	58	55	668	56		4
5	59	65	62	53	61	51	60	49	49	49	45	56	659	55		5
6	52	64	51	57	53	48	49	51	44	49	44	42	594	50		6
7	45	43	46	35	39	48	47	48	39	45	51	47	533	44		7
8	55	50	53	57	49	57	56	51	51	59	57	56	651	54		8
9	59	76	56	59	60	58	59	59	62	62	54	56	720	60		9
10	56	59	57	62	57	55	61	56	56	57	48	55	679	57		10
11	47	50	53	61	54	57	58	55	61	50	54	49	649	54		11
12	53	56	56	59	55	60	65	62	64	57	61	53	701	58		12
13	58	59	57	61	62	65	54	60	58	52	50	61	697	58		13
14	55	53	56	55	54	52	63	55	56	53	51	45	648	54		14
15	54	58	55	52	48	54	56	47	49	47	54	51	625	52		15
16	55	50	55	62	62	63	56	53	47	49	57	51	660	55		16
17	53	56	51	57	55	53	52	54	57	49	49	52	638	53		17
18	62	58	52	50	58	63	61	66	70	52	61	55	708	59		18
19	52	66	53	73	61	65	62	66	75	60	60	53	746	62		19
20	65	68	62	65	69	71	68	78	62	63	56	69	796	66		20
21	72	69	62	61	63	66	79	66	66	70	64	67	805	67		21
22	67	65	59	65	70	67	65	66	66	48	48	54	740	62		22
23	60	63	57	49	58	60	63	65	65	63	58	55	716	60		23
24	56	57	58	52	67	71	65	71	65	52	57	54	725	60		24
25	56	54	60	62	64	54	61	62	62	69	59	57	720	60		25
26	46	49	(66)	64	62	67	61	70	66	66	70	60	747	62		26
27	64	70	68	57	56	62	69	62	65	66	58	64	761	63		27
28	63	62	67	64	61	67	60	66	68	56	54	47	735	61		28
29	50	62	57	64	51	56	58	62	54	58	50	56	678	56		29
30	51	61	52	58	59	56	56	57	59	59	59	47	674	56		30
31	58	54	44	52	61	54	58	63	65	56	59	61	685	57		31
Sum	1697	1775	1715	1744	1771	1794	1810	1814	1786	1704	1658	1668	20936	1743	56.2 (31 days)	
Mean	54.7	57.3	55.3	56.3	57.1	57.9	58.4	58.5	57.6	55.0	53.5	53.8	675.4			
													56.3			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 306

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	57	54	56	53	56	47	58	58	62	59	57	60	677	56			1
2	58	61	63	62	59	68	58	59	67	56	62	64	737	61			2
3	67	68	58	59	59	61	53	61	57	56	59	64	722	60			3
4	55	60	61	60	59	59	60	67	55	69	54	63	722	60			4
5	67	72	59	57	66	72	69	66	69	75	69	67	808	66			5
6	61	72	64	65	59	65	59	64	65	64	56	62	756	63			6
7	65	70	53	69	55	66	61	61	70	62	53	58	743	62			7
8	60	67	67	60	65	70	62	68	56	57	59	65	756	63			8
9	56	64	58	61	63	66	60	63	60	57	58	54	720	60			9
10	58	61	65	73									(257)	(64)	4		10
11																	11
12																	12
13					81	84	82	77	79	72	74	76	(625)	(78)	8		13
14	77	81	76	70	72	78	71	75	77	70	71	65	883	74			14
15	68	67	74	71	69	64	63	65	62	67	73	71	814	68			15
16	64	67	78	67	69	70	70	77	74	80	66	70	852	71			16
17	67	76	78	77	90	77	99	90	90	85	87	81	997	83			17
18	77	81	77	79	73	81	83	87	87	76	72	74	947	79			18
19	75	69	68	66	69	70	76	81	65	63	62	61	825	69			19
20	65	66	62	70	64	72	54	64	58	68	69	74	786	66			20
21	85	78	70	72	78	74	79	81	80	70	80	77	924	77			21
22	82	79	73	81	83	79	69	79	73	76	76	75	925	77			22
23	72	78	74	77	79	85	81	81	77	78	86	74	942	78			23
24	70	62	70	70	73	76	70	75	80	68	80	66	860	72			24
25	72	71	68	63	77	84	88	83	88	91	85	80	950	79			25
26	89	80	79	85	76	80	87	77	70	76	73	73	945	79			26
27	77	75	78	80	73	81	80	76	80	73	68	75	916	76			27
28	80	70	77	74	76	74	81	82	77	78	70	72	911	76			28
29	84	81	83	83	84	73	68	77	77	78	76	68	932	78			29
30	75	77	73	74	77	79	76	82	67	75	69	71	895	75			30
31																	31
Sum	1825	1846	1797	1805	1823	1871	1835	1899	1843	1827	1790	1784	21945	1828	70.3	(26 days)	
Mean	70.2	71.0	69.1	69.4	70.1	72.0	70.6	73.0	70.9	70.3	68.8	68.6	844.0	1970	70.4	(28 days)	
													70.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 307

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1950

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15							89	76	84	78	73	87	(487)	(81)	6		15
16	79	81	75	72	73	71	78	85	82	88	72	88	944	79			16
17	83	79	83	84	86	83	83	84	80	83	87	90	1005	84			17
18	88	92	90	92	89	91	101	92	96	86	88	88	1093	91			18
19	90	92	89	92	93	87	86	96	88	90	90	95	1088	91			19
20	91	95	92	87	91	92	91	93	97	93	97	91	1110	92			20
21	94	98	90	97	86	90	96	93	92	84	87	96	1103	92			21
22	92	92	83	81	101	92	82	82	86	84	81	87	1043	87			22
23	84	74	76	79	78	78							(469)	(78)	6		23
24																	24
25						79	79	79	85	84	73	77	(556)	(79)	7		25
26	83	77	74	81	75	72	80	65	71	79	75	71	903	75			26
27	80	76	76	81									(313)	(78)	4		27
28																	28
29																	29
30																	30
31																	31
Sum	700	706	676	686	694	678	697	690	692	687	677	706	8289	691	86.4	(8 days)	
Mean	87.5	88.2	84.5	85.8	86.6	84.8	87.1	86.2	86.5	85.9	84.6	88.2	10359	1007	83.9	(12 days)	
													86.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 308

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1																	1
2																	2
3																	3
4																	4
5							78	75	67	66	76	66	(428)	(71)^{6}			5
6	66	75	71	81	73	77	73	83	75	86	80	69	909	76			6
7	79	76	77	83	82	80	85	91	82	84	93	84	996	83			7
8	89	88	96										(273)	(91)^{3}			8
9																	9
10					86	90	91	88	94	83	89	80	(701)	(88)^{8}			10
11	78	77	86	80	86	90	90	98	85	96	89	79	1034	86			11
12	83	87	82	84	89	94	96	90	86	88	82	85	1046	87			12
13	84	77	87	79	90	82	83	93	77	87	85	80	1004	84			13
14	78	73	80	76	82	80	83	76	87	90	71	74	950	79			14
15	68	85	72	78	90	76	81	92	86	88	89	83	988	82			15
16	80	92	76	86	90	79	78	73	76	72	80	76	958	80			16
17	74	61	70	52	57	72	72	71	69	70	72	78	818	68			17
18	65	74	73	74	68	83	83	81	76	82	82	76	917	76			18
19	78	79	77	81	78	78	74	70	83	73	76	64	911	76			19
20	73	69	81	83	70	70	76	72	70	68	64	72	868	72			20
21	75	64	64	67	66	74	72	82	73	85	87	78	887	74			21
22	82	75	80	76	78	82	88	78	85	79	83	78	964	80			22
23	78	70	70	67	67	66	88	73	72	69	66	73	859	72			23
24	63	67	71	70	67	71	80	81	89	82	75	76	892	74			24
25	82	80	74	88	86	91	102	93	94	90	89	102	1071	89			25
26	86	93	96	92	99	101	98	94	91	88	78	71	1087	91			26
27	74	74	75	79	74	73	81	75	67	57	68	57	854	71			27
28	65	61	64	65	67	67	76	71	68	65	65	66	800	67			28
29	61	62	71	67	68	70	69	71	72	69	73	82	835	70			29
30	77	76	66	72	72	73	82	79	75	73	78	77	900	75			30
31	70	72	78	68	71	76	73	79	74	78	68	72	879	73			31
Sum	1719	1719	1741	1748	1770	1805	1883	1866	1812	1819	1793	1752	21427	1785	77.6	(23 days)	
Mean	74.7	74.7	75.7	76.0	77.0	78.5	81.9	81.1	78.8	79.1	78.0	76.2	9317	2035	78.3	(26 days)	
													77.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 309

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13										68	57	66	(191)	(64)^{3}			13
14	58	62	60	61	62	59	64	62	75	71	64	63	761	63			14
15	64	67	66	71	70	68	77	76	73	76	70	78	856	71			15
16	73	74	77	63	77	68	74	77	75	79	71	79	887	74			16
17	78	78	84	75	71	72	71	63	84	71	83	75	905	75			17
18	77	68	65	70	70	70	67	74	63	65	69	65	823	69			18
19	60	59	61	54	62	59	67	61	63	56	57	60	719	60			19
20	56	62	61	59	56	59	66	62	75				(556)	(62)^{9}			20
21					59	64	69	63	68	66	74	65	(528)	(66)^{8}			21
22	62	60	55	62	65	68	69	61	61	59	60	66	748	62			22
23	60	70	64	73	73	69	60	70	67	66	67	67	806	67			23
24	60	67	67	69	71	72	70	72	74	71	67	55	815	68			24
25	61	60	59	61	64	61	67	64	66	61	65	62	751	63			25
26	63	63	60	61	60	62	60	57	56	61	54	63	720	60			26
27	64	61	65	60	67	69	70	61	61	55	60	66	759	63			27
28	68	61	71	65	74	68	74	59	68	66	58	59	791	66			28
29																	29
30																	30
31																	31
Sum	848	850	854	845	886	865	890	857	886	857	845	858	10341	861	66.2	(13 days)	
Mean	65.2	65.4	65.7	65.0	68.2	66.5	68.5	65.9	68.2	65.9	65.0	66.0	7955	1053	65.8	(16 days)	
													66.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 310

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	56	59	64	62	61	60	63	54	64	58	56	58	715	60		1
2	57	54	54	60	67	61	67	67	63	56	62	60	728	61		2
3	65	56	59	63	67	59	77	65	67	56	53	67	754	63		3
4	64	56	54	52	64	66	62	61	60	64	62	67	732	61		4
5	68	61	69	74	72	73	68	64	73	69	61	59	811	68		5
6	67	63	63	63	65	61	61	60	52	60	65	58	738	62		6
7	67	61	64	64	57	65	61	61	53	60	56	60	729	61		7
8	64	53	66	66	56	64	79	76	66	65	59	68	782	65		8
9	66	69	75	74	68	77	75	74	74	71	65	74	862	72		9
10	73	78	73	71	77	79	73	74	67	67	66	69	867	72		10
11	68	79	73	69	78	62	73	64	62	69	67	53	817	68		11
12	72	68	62	71	72	67	68	64	65	64	64	74	811	68		12
13	66	76	74	70	66	69	63	67	65	63	68	71	818	68		13
14	73	78	69	81	87	87	86	91	86	83	81	69	971	81		14
15	74	70	82	85	87	69	80	82	73	75	72	70	919	77		15
16	82	70	75	87	79	87	81	86	86	74	72	70	949	79		16
17	78	68	71	77	74	74	75	82	74	75	67	68	883	74		17
18	70	64	73	64	57	68	66	66	66	62	58	59	773	64		18
19	63	63	64	65	63	70	67	75	68	55	61	57	771	64		19
20	62	60	63	70	72	71	74	70	61	71	62	71	807	67		20
21	77	71	71	69	72	76	84	82	75	82	78	88	925	77		21
22	88	96	87	84	98	96	86	77	79	74	73	78	1016	85		22
23	72	75	67	79	69	62	76	65	62	64	65	62	818	68		23
24	72	72	66	77	77	68	79	78	69	78	70	83	889	74		24
25	80	74	75	68	85	73	80	75	80	69	78	76	913	76		25
26	82	87	72	84	75	81	84	69	79	68	72	80	933	78		26
27	74	75	74	68	70	71	68	67	70	75	67	73	852	71		27
28	71	66	66	74	68	67	57	64	66	62	63	64	788	66		28
29	61	67	62	68	63	70	61	66	61	63	57	55	754	63		29
30	59	56	60	63	73	65	59	64	72	76	66	59	772	64		30
31	67	56	77	73	69	64	70	77	77	63	70	68	831	69		31
Sum	2158	2101	2124	2195	2208	2182	2223	2187	2135	2091	2036	2088	25728	2146		
Mean	69.6	67.8	68.5	70.8	71.2	70.4	71.7	70.5	68.9	67.5	65.7	67.4	8300	69.2	(31 days)	
													69.2			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 311

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean		Day
1	60	58	61	59	57	69	65	67	68	69	76	70	779	65		1
2	66	73	68	62	64	71	70	72	71	60	77	71	825	69		2
3	66	79	77	76	74	83	77	72	72	72	75	66	889	74		3
4	76	77	66	82	68	78	80	83	72	75	71	73	901	75		4
5	73	79	79	73	76	77	84	78	72	58	66	72	887	74		5
6	67	69	73	75	69	68	70	73	65	59	72	60	820	68		6
7	78	57	63	67	71	70	67	68	75	70	63	64	813	68		7
8	68	67	69	65	63	69	66	63	68	60	62	60	780	65		8
9	63	72	72	79	72	84	76	77	64	74	70	67	870	72		9
10	72	74	63	69	78	69	73	76	64	69	72	68	847	71		10
11	60	78	81	71	77	72	75	78	81	69	60	63	865	72		11
12	68	66	70	64	72	64	60	64	65	70	69	63	795	66		12
13	64	72	63	65	67	68	73	66	66	53	60	64	781	65		13
14	62	68	63	64	62	66	64	62	59	65	63	57	755	63		14
15	58	63	62	62	57	65	65	58	52	60	54	55	711	59		15
16	65	51	58	62	61	67	64	67	71	64	63	67	760	63		16
17	63	66	72	67	82	82	79	76	71	65	66	68	857	71		17
18	69	70	77	76	76	81	78	73	69	54	58	66	847	71		18
19	69	65	70	74	68	72	69	67	55	63	65	69	806	67		19
20	56	72	70	66	67	68	66	59	69	60	59	58	770	64		20
21	71	63	66	60	71	56	58	59	57	57	56	56	730	61		21
22	48	60	57	60	57	67	58	66	70	67	62	65	737	61		22
23	55	72	68	67	65	64	73	63	67	69	67	67	797	66		23
24	62	69	66	75	63	55	60	71	66	55	68	63	773	64		24
25	61	59	58	59	56	58	67	56	58	55	59	56	702	58		25
26	51	53	57	53	50	54	65	58	65	54	51	62	673	56		26
27	59	59	50	41	58	59	64	68	59	57	52	58	684	57		27
28	55	52	60	66	58	66	64	60	56	58	53	52	700	58		28
29	63	58	50	54	58	56	63	62	56	49	54	52	675	56		29
30	58	60	55	57	59	55	59	57	57	60	59	65	701	58		30
31																31
Sum	1906	1981	1964	1970	1976	2033	2052	2019	1960	1870	1902	1897	23530	1957	652 (30 days)	
Mean	63.5	66.0	65.5	65.7	65.9	67.7	68.4	67.3	65.3	62.3	63.4	63.2	7842			
													654			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 312

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	51	53	54	57	50	63	62	60	51	53	52	50	656	55			1
2	54	55	50	50	48	52	53	49	61	46	58	47	623	52			2
3	38	54	50	60	58	59	62	62	61	55	51	61	671	56			3
4	59	65	61	63	57	57	71	67	64	57	71	64	756	63			4
5	56	64	67	69	63	75	67	70	64	68	68	64	795	66			5
6	61	61	65	68	64	66	63	68	60	56	60	60	752	63			6
7	68	68	72	66	59	64	65	62	67	67	57	68	783	65			7
8	66	64	60	59	64	60	55	66	51	56	50	54	705	59			8
9	55	56	66	62	59	60	60	62	61	54	56	52	703	59			9
10	62	56	58	58	59	57	60	60	60	61	58	52	691	58			10
11	54	47	52	52	56	55	55	62	54	63	50	52	652	54			11
12	51	40	44	54	52	53	52	62	61	58	60	53	640	53			12
13	57	55	69	60	65	62	73	74	72	69	64	68	788	66			13
14	67	72	76	68	63	63	63	63	58	57	56	60	766	64			14
15	53	47	53	49	53	46	48	44	62	48	52	43	588	49			15
16	48	45	44	42	46	40	51	43	48	51	51	50	559	47			16
17	44	53	47	46	54	58	45	53	50	49	52	48	599	50			17
18	41	52	50	48	48	45	50	48	42	49	45	48	566	47			18
19	51	46	53	49	62	50	50	45	50	46	43	55	600	50			19
20	48	53	49	49	58	45	48	54	50	52	43	52	601	50			20
21	54	49	57	62	50	47	47	48	57	52	47	57	627	52			21
22	54	53	47	52	47	47	45	43	40	51	42	52	573	48			22
23	45	45	48	55	63	52	52	51	54	39	50	42	586	49			23
24	38	44	52	45	38	51	46	43	46	51	50	48	551	46			24
25	45	34	42	47	45	39	39	36	44	35	38	41	485	40			25
26	33	31	33	41	39	29	37	38	34	40	40	32	427	36			26
27	39	36	38	43	43	46	46	47	37	45	43	46	509	42			27
28	52	50	43	49	40	48	47	42	40	51	48	40	550	46			28
29	43	35	43	43	44	47	47	49	44	47	46	44	532	44			29
30	46	43	47	53	53	40	38	47	42	36	37	39	521	43			30
31	37	47	46	44	40	36	35	41	40	39	35	35	475	40			31
Sum	1570	1573	1636	1663	1630	1612	1631	1649	1615	1601	1573	1577	19330	1612	52.0	(31 days)	
Mean	50.6	50.7	52.8	53.6	526	52.0	52.6	532	52.1	51.6	50.7	50.9	623.4				
													52.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 313

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	35	36	48	31	41	44	40	45	39	33	43	39	474	40			1
2	42	27	38	40	34	36	36	32	31	31	41	42	430	36			2
3	38	43	31	41	39	48	38	42	41	53		42	(456)	(41)	11		3
4	48	52	39	45	39	48	50	36	43	41	36	49	526	44			4
5	48	48	44	39	44	48	49	47	47	52	53	57	576	48			5
6	50	33	43	36		37	44	50	45	56	44	41	(479)	(44)	11		6
7	44	52	47	49	47	51	46	53	48	45	37	43	562	47			7
8	41	38	44	52	42	40	48	48	51	44	42	43	533	44			8
9	37	38	36	42	40	48	56	45	47	46	48	38	521	43			9
10	44	48	49	50	44	55	62	52	54	49	52	49	608	51			10
11	49	51	48	43	46	47	46	56	45	45	53	46	575	48			11
12	39	47	40	41	49	45	53	48	55	52	43	48	560	47			12
13	39	41	36	44	37	44	41	36	41	42	36	36	473	39			13
14	33	50	43	42	47	42	49	50	37	28	36	32	489	41			14
15	30	33	28	33	30	28	25	29	33	25	31	17	342	28			15
16	28	23	22	20	29	28	25	32	28	26	30	18	309	26			16
17	29	25	23	15	21	28	28	31	21	22	15	21	279	23			17
18	19	22	23	18	19	20	27	29	21	18	26	17	259	22			18
19	17	11	21	20	21	21	22	21	19	23	22	15	233	19			19
20	19	19	14	23	29	17	14	24	32	22	24	22	259	22			20
21	22	19	26	18	21	20	26	28	24	20	28	31	283	24			21
22	21	30	25	34	25	22	22						(179)	(25)	7		22
23									16	32	20	28	(96)	(24)	4		23
24	25	36	38	30	29	20	25	33	31	30	34	40	371	31			24
25	36	31	30	28									(125)	(32)	4		25
26					37	40	29	38					(144)	(36)	4		26
27					39	45	37	37	33	43	34	40	(308)	(38)	8		27
28	35	40	34	37	40	37			36	35	45	44	(383)	(38)	10		28
29	34	36	32	34	40	45	43	46	35	42	43	42	472	39			29
30	43	39	32	47	49	52	53	38	40	42	33	37	505	42			30
31																	31
Sum	765	791	771	776	798	827	864	859	822	778	806	782	9639	804	36.5	(22days)	
Mean	34.7	36.0	35.0	35.3	36.3	37.6	39.3	39.0	37.4	35.4	36.6	35.5	438.1	1082	36.1	(30 days)	
													36.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 314

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	52	40	36	41	38	49	41	55	47	38	45	45	527	44		1
2	47	49	38	45	43	35	44	44	46	29	37	36	493	41		2
3	35	36	35	37	37	43	34	31	37	38	33	34	430	36		3
4	33	46	32	48	42	32	41	32	29	38	35	28	436	36		4
5	43	34	39	40	47	49	46	41	58	44	47	47	535	45		5
6	51	49	65	53	48	57	50	54	59	49	42	49	616	51		6
7	50	38	47	52	46	50	47	47	52	45	43	38	555	46		7
8	53	40	41	45	44	40	46	42	47	37	45	46	526	44		8
9	46	50	36	42	34	39	47	51	43	47	36	47	518	43		9
10	40	41	34	33	38	42	39	41	43	42	34	37	464	39		10
11	42	31	34	40	39	48	44	39	34	39	44	38	472	39		11
12	39	29	25	27	36	33	36	36	35	36	46	45	423	35		12
13	36	35	37	35	32	36	35	45	39	34	37	41	442	37		13
14	38	43	45	48	34	40	47	45	37	47	39	49	512	43		14
15	35	49	53	47	40	42	40	44	40	42	40	43	515	43		15
16	41	40	36	44	39	42	46	41	42	40	33	34	478	40		16
17	41	35	35	35	40	33	42	36	46	37	38	38	456	38		17
18	34	26	33	33	46	33	49	41	35	39	35	32	436	36		18
19	42	37	35	34	34	42	40	35	37	30	44	38	448	37		19
20	36	38	28	41	32	41	40	49	45	34	33	38	455	38		20
21	35	43	33	37	41	22	34	31	35	34	30	30	405	34		21
22	36	27	31	32	34	30	26	29	26	28	22	27	348	29		22
23	28	25	21	23	34	34	40	23	30	33	29	31	351	29		23
24	28	26	26	30	34	37	31	33	34	34	30	37	380	32		24
25	35	30	35	34	35	42	41	40	35	38	35	30	430	36		25
26	37	31	39	38	38	34	35	43	38	36	27	43	439	37		26
27	37	42	35	43	30	36	32	33	38	36	38	28	428	36		27
28	27	33	31	28	35	25	29	30	39	31	36	38	382	32		28
29	36	24	24	25	21	34	33	28	14	23	20	20	302	25		29
30	30	30	28	27	30	31	25	23	21	19	26	33	323	27		30
31	23	28	23	38	32	27	31	20	22	19	20	17	300	25		31
Sum	1186	1125	1080	1175	1153	1178	1211	1182	1183	1116	1099	1137	13825	1153		
Mean	38.3	36.2	34.8	37.9	37.2	38.0	39.1	38.1	38.2	36.0	35.2	36.7	4457	37.2	(31 days)	
													37.1			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 315

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	18	29	33	27	30	35	34	35	23	40	25	33	362	30			1
2	30	31	33	33	29	29	44	32	31	35	31	32	390	32			2
3	32	34	34	28	39	39	42	40	39	40	32	45	444	37			3
4	42	35	34	38	39	35	40	49	49	45	38	41	485	40			4
5	33	40	39	36	36	39	42	42	44	40	45	41	477	40			5
6	30	36	40	39	44	44	44	36	47	41	37	37	475	40			6
7	36	38	39	36	36	28	40	45	36	40	35	42	451	38			7
8	40	32	32	26	37	38	37	32	34	25	33	34	400	33			8
9	42	30	33	35	26	33	35	30	29	35	40	38	406	34			9
10	38	39	32	43	40	34	43	42	40	34	33	32	450	38			10
11	35	40	32	35	36	49	35	36	30	29	28	27	412	34			11
12	32	29	34	27	30	35	32	33	41	40	30	24	387	32			12
13	25	23	23	21	25	22	26	8	22	23	21	25	264	22			13
14	22	24	12	16	14	26	19	27	28	31	30	30	279	23			14
15	29	30	19	23	18	27	23	17	29	25	23	15	278	23			15
16	23	32	22	23	29	28	27	17	20	13	10	19	263	22			16
17	13	20	22	21	31	21	28	30	29	26	27	29	297	25			17
18	28	33	38	31	31	37	27	26	26	27	34	30	368	31			18
19	35	33	31	22	29	35	21	34	34	40	33	36	383	32			19
20	30	33	28	33	31	33	39	33	28	27	33	26	374	31			20
21	26	23	23	23	30	23	21	28	28	29	21	22	297	25			21
22	27	27	30	33	33	21	31	26	33	22	26	29	338	28			22
23	30	34	40	30	28	32	34	30	43	27	34	36	398	33			23
24	31	38	36	40	41	48	36	48	46	37	42	37	480	40			24
25	37	33	43	42	44	39	34	41	39	39	39	43	473	39			25
26	33	43	39	39	42	41	44	37	39	45	41	43	486	40			26
27	43	43	44	37	42	43	40	42	29	33	31	38	465	39			27
28	43	39	32	42	38	36	46	32	48	36	40	39	471	39			28
29	37	44	42	39	45	45	47	36	41	32	39	45	492	41			29
30	43	44	41	39	34	38	34	46	38	40	40	38	475	40			30
31	37	35	35	32	34	36	42	41	41	37	36	37	443	37			31
Sum	1000	1044	1015	989	1041	1069	1087	1051	1084	1033	1007	1043	12463	1038	33.5	(31 days)	
Mean	32.3	33.5	32.7	31.9	33.6	34.5	35.1	33.9	35.0	33.3	32.5	33.6	4019				
													33.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 316

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	33	35	30	29	33	37	49	33	43	39	37	29		427	36			1
2	36	33	31	40	38	32	42	48	30	32	44	33		439	37			2
3	32	30	24	42	39	41	43	38	34	41	34	39		437	36			3
4	30	37	35	37	39	35	45	47	45	41	37	44		472	39			4
5	45	41	47		33	40	46	28	35	45	37	26		(423)	(38)	"		5
6	34	41	35	38	31	37	44	36	33	36	28	33		426	36			6
7	38	31	37	37	45	46	40	44	46	41	42	41		488	41			7
8	41	36	37	47	40	46	39	42	34	34	25	41		462	39			8
9	47	45	42	34	44	38	37	37	41	39	36	37		477	40			9
10	40	39	27	28	30	35	37	30	36	33	29	29		393	33			10
11	31	23	27	22	25	30	27	32	41	36	29	28		351	29			11
12	25	22	29	30	25	36	25	34	28	32	33	29		348	29			12
13	29	28	24	24	27	28	32	33	33	33	28	21		340	28			13
14	31	26	26	23	24	28	26	20	30	34	28	33		319	27			14
15	18	23	31	36	34	35	34	37	27	26	37	23		361	30			15
16	28	30	32	35	27	32	44	40	22	25	37	36		388	32			16
17	37	31	38	34	37	38	32	28	33	33	31	35		407	34			17
18	28	27	34	33	30	40	31	33	36	35	26	31		384	32			18
19	34	31	37	32	33	39	42	27	33	33	25	26		392	33			19
20	34	31	41	35	35	32	38	42	33	38	33	33		425	35			20
21	36	36	34	40	28	34	33	34	37	34	30	33		409	34			21
22	35	34	45	33	33	40	31	33	35	34	37	32		422	35			22
23	43	41	43	34	36	41	41	44	35	45	42	43		488	41			23
24	30	27	37	34	36	45	39	45	45	41	35	36		450	38			24
25	29	30	40	36	45	32	35	36	39	31	37	41		431	36			25
26	38	43	40	39	40	37	41	40	43	44	37	31		473	39			26
27	39	33	30	37	43	38	43	45	36	34	41	31		450	38			27
28	39	32	40	38	47	34	50	48	46	52	37	44		507	42			28
29	41	36	41	43	43	48	51	47	45	43	37	43		518	43			29
30	37	39	38	47	47	48	39	50	42	49	34	32		502	42			30
31																		31
Sum	993	950	1005	1017	1034	1072	1110	1103	1061	1068	986	987		12386	1024	35.3	(29 days)	
Mean	34.2	32.8	34.7	35.1	35.7	37.0	38.3	38.0	36.6	36.8	34.0	34.0		427.2	1062	35.4	(30 days)	
														35.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 317

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	43	37	34	40	38	38	39	47	49	51	48	50		514	43			1
2	51	43	55	55	55	56	57	59	54	59	52	50		646	54			2
3	63	54	55	58	52	54	58	60	55	41	47	47		644	54			3
4	51	52	42	44	50	53	49	49	45	47	38	37		557	46			4
5	51	49	41	42	40	47	40	40	37	41	34	38		500	42			5
6	37	39	42	52	46	48	52	44	53	42	44	44		548	46			6
7	50	51	46	39	39	47	40	43	39	38	48	41		521	43			7
8	38	42	39	48	50	41	49	46	47	50	43	46		539	45			8
9	49	42	65	50	43	53	50	51	43	37	39	44		566	47			9
10	48	51	38	39	41	39	40	40	30	26	29	43		464	39			10
11	34	30	38	36	40	42	42	42	46	31	35	43		465	39			11
12	43	40	40	39	37	37	38	41	32	35	31	39		452	38			12
13	36	37	39	31	39	39	32	40	41	35	35	35		439	37			13
14	40	36	33	40	41	42	40	47	35	38	39	39		470	39			14
15	36	34	42	48	49	41	42	39	36	35	37	46		485	40			15
16	37	42	39	35	43	42	38	39	38	39	34	46		472	39			16
17	34	41	40	34	40	38	45	36	44	30	36	36		454	38			17
18	35	46	42	37	37	41	41	45	46	44	45	41		502	42			18
19	41	49	42	43	40	51	47	43	46	44	43	48		537	45			19
20	47	53	43	51	44	50	43	44	50	43	46	50		564	47			20
21	43	40	49	47	43	43	40	52	39	40	38	49		523	44			21
22	47	51	44	47	43	42	45	45	46	46	42	40		538	45			22
23	44	44	42	48	48	44	54	45	40	41	40	38		528	44			23
24	33	37	40	46	54	53	47	42	42	48	45	43		530	44			24
25	50	52	55	60	60	54	47	50	49	45	37	38		597	50			25
26	39	44	45	39	45	51	46	47	45	44	51	44		540	45			26
27	31	46	47	47	52	56	53	47	53	48	47	49		576	48			27
28	46	40	48	44	51	50	37	39	48	47	47	46		543	45			28
29	42	46	44	46	50	43	49	45	51	46	34	43		539	45			29
30	38	43	43	42	49	42	45	28	39	46	47	36		498	42			30
31	44	50	50	50	44	45	40	45	45	44	48	56		561	47			31
Sum	1321	1361	1362	1379	1403	1422	1385	1380	1363	1307	1284	1345		16312	1362	43.9	(31 days)	
Mean	426	43.9	43.9	445	45.3	45.9	44.7	445	44.0	42.2	41.4	43.2		5261				
														43.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 318

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	62	51	52	36	51	48	48	46	54	59	54	44		605	50			1
2	54	52	55	55	53	52	53	53	42	41	48	53		611	51			2
3	43	49	50	53	48	58	60	56	61	50	49	56		633	53			3
4	52	54	56	58	53	49	54	45	57	54	53	54		639	53			4
5	48	57	52	59	44	51	58	56	44	48	43	49		609	51			5
6	45	46	40	47	38	32	38	41	36	30	40	41		474	40			6
7	28	41	37	34	44	39	43	52	41	40	45	47		491	41			7
8	41	52	56	46	62	50	54	59	59	49	47	46		621	52			8
9	53	49	48	52	52	52	42	42	39	46	39	46		560	47			9
10	45	55	41	42	36	47	46	44	36	44	46	48		530	44			10
11	51	48	39	44	53	56	47	48	48	47	51	48		580	48			11
12	55	50	47	55	49	40	47	52	50	48	46	47		586	49			12
13	46	46	40	45	40	47	47	50	42	36	43	41		523	44			13
14	45	39	34	41	40	41	48	44	51	42	51	44		520	43			14
15	45	41	53	54	48	52	51	60	50	46	47	48		595	50			15
16	48	41	60	48	48	52	55	55	49	51	51	52		610	51			16
17	65	65	63	62	63	65	73	71	71	74	67	74		813	68			17
18	70	70	69	71	74	72	73	74	78	70	70	73		864	72			18
19	75	67	75	77	81	87	89	87	80	76	70	72		936	78			19
20	65	78	79	71	66	75	83	74	62	59	70	60		842	70			20
21	60	63	60	55	58	63	61	64	56	47	49	44		680	57			21
22	51	39	52	48	54	48	54	45	52	47	45	48		583	49			22
23	44	41	54	48	48	59	54	43	45	52	49	59		596	50			23
24	49	43	52	56	60	46	51	59	54	56	60	52		638	53			24
25	55	55	54	52	59	54	58	56	58	56	52	55		664	55			25
26	46	53	59	48	61	61	62	53	51	57	58	60		669	56			26
27	53	62												(115)	(58)	2		27
28							67	64	58	64	67	57		(377)	(63)	6		28
29	53	65	69	59	61	69	63	59	62	56	57	56		729	61			29
30	62	57	65	56	60	60	52	63	57	52	61	56		701	58			30
31																		31
Sum	1456	1467	1511	1472	1504	1525	1564	1551	1485	1433	1461	1473		17902	1494	53.4	(28 days)	
Mean	52.0	52.4	54.0	52.8	53.7	54.5	55.9	55.4	53.0	51.2	51.2	52.5		639.6	1615	53.8	(30 days)	
														53.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 319

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1951

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	52	55	65	63	69	49	44	55	54	57	53	48		664	55			1
2	58	61	57	47	62	59	53	53	48	49	47	51		645	54			2
3	57	46	57	54	52	59	57	58	49	50	53	53		645	54			3
4	43	43	50	48	46	50	50	49	48	52	45	46		570	48			4
5	51	45	50	41	45	48	55	59	57	55	49	52		607	51			5
6	46	39	49	49	48	47	48	49	53	49	44	37		558	46			6
7	52	39	39	40	42	50	53	49	44	36	42	34		520	43			7
8	40	46	50	55	52	52	48	53	46	48	54	39		583	49			8
9	48	45	46	46	43	41	47	55	39	51	47	47		555	46			9
10	60	50	55	53	48	54	60	51	62	64	62	62		681	57			10
11	57	57	55	61	58	60	51	69	67	62	64	64		725	60			11
12	71	63	72	76	73	75	73	78	71	73	71	58		854	71			12
13	70	70	78	69	78	67	72	66	70	77	68	60		845	70			13
14	66	60	63	72	64	68	72	66	64	58	48	57		758	63			14
15	52	51	55	57	64	60	69	71	77	75	70	69		770	64			15
16	71	70	81	75	82	79	84	72	70	79	70	77		910	76			16
17	76	65	66	66	70	72	73	78	63	65	72	67		833	69			17
18	67	67	67	63	69	66	70		69	70	65	72		(745)	(68)	"		18
19	67	64	64	65	60	73	73	75	69	68	68	80		826	69			19
20	67	66	69	67	65	69	60	63	58	55	54	56		749	62			20
21	54	55	45	52	58	53	58	61	61	53	53	60		663	55			21
22	46	53	64	72	72	69	62	60	63	56	62	58		737	61			22
23	62	70	66	63	55	63	71	64	59	62	61	56		752	63			23
24	57	60	52	57	56	57	70	70	70	71	62	65		747	62			24
25	73	67	62	61	65	61	63	65	58	64	68	53		760	63			25
26	62	60	64	64	69	69	61	66	62	65	67	65		774	64			26
27	68	67	64	60	59	71	67	75	79	67	70	49		796	66			27
28	60	59	52	51	56	57	60	66	61	56	64	47		689	57			28
29	53	49	54	58	55	58	51	57	58	51	51	55		650	54			29
30	41	45	42	52	49	43	51	44	46	43	53	48		557	46			30
31	40	37	48	45	40	48	48	46	32	36	34	37		491	41			31
Sum	1720	1657	1734	1739	1755	1781	1804	1843	1758	1747	1726	1650		20914	1739	58.0	(30 days)	
Mean	57.3	55.2	57.8	58.0	58.5	59.4	60.1	61.4	58.6	58.2	57.5	55.0		697.0	1807	58.3	(31 days)	
														58.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 320

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	33	36	34	36	43	29	44	44	47	40	38	37	461	38			1
2	34	32	36	39	53	47	52	61	56	48	42	46	546	45			2
3	47	47	45	50	54	53	55	61	69	47	55	53	636	53			3
4	48	57	58	50	58	64	62	60	60	47	51	52	667	56			4
5	58	55	54	47	56	55	59	58	51	51	54	57	655	55			5
6	58	61	65	54	77	63	74	70	64	67	67	59	779	65			6
7	63	70	65	58	62	58	55	61	60	69	58	62	741	62			7
8	58	56	52	53	51	51	61	59	58	55	58	55	667	56			8
9	51	51	60	59	43	52	64	63	54	55	50	35	637	53			9
10	56	53	51	58	58	64	64	69	68	65	72	69	747	62			10
11	63	59	54	62	59	65	63	61	61	55	49	57	708	59			11
12	53	46	46	45	50	57	57	65	48	54	49	53	623	52			12
13	64	55	54	54	59	64	68	68	58	65	60	55	724	60			13
14	45	47	51	48	49	47	57	49	50	50	38	37	568	47			14
15	44	52	49	47	49	49	55	59	48	53	47	54	606	50			15
16	46	56	59	53	50	60	49	54	63	50	55	54	649	54			16
17	52	59	58	51	53	60	58	64	58	52	59	53	677	56			17
18	52	63	61	64	50	62	58	60	74	67	61	55	727	61			18
19	58	36	59	62	59	60	50	60	62	55	64	58	683	57			19
20	58	57	56	53	47	57	61	66	65	60	37	64	681	57			20
21	78	69	72	63	72	63	65	65	68	65	73	70	823	69			21
22	76	66	67	71	68	69	63	63	63	57	64	59	786	66			22
23	51	56	55	54	63	59	73	69	71	68	71	66	756	63			23
24	57	63	67	69	71	72	72	70	71	64	57	70	803	67			24
25	67	67	60	72	64	68	62	61	61	62	60	53	757	63			25
26	55	55	49	45	49	50	57	46	53	47	46	40	592	49			26
27	54	46	43	61	54	60	54	48	52	49	50	51	622	52			27
28	47	42	43	56	42	53	56	64	55	49	57	61	625	52			28
29	65	72	63	61	64	72	67	76	64	63	68	64	799	66			29
30	67	74	69	65	67	71	66	61	57	73	59	67	796	66			30
31	59	58	64	63	58	62	51	59	59	53	48	51	685	57			31
Sum	1717	1716	1719	1723	1752	1816	1852	1894	1848	1755	1717	1717	21226	1766	57.0	(31 days)	
Mean	55.4	55.4	55.5	55.6	56.6	58.6	59.7	61.1	59.6	56.6	55.4	55.4	6849				
													57.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 321

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	50	47	46	46	46	52	61	52	43	43	43	50	579	48			1
2	48	46	43	53	55	48	55	45	57	47	46	48	591	48			2
3	44	42	56	53	61	51	55	52	49	43	55	49	610	51			3
4	51	47	48	51	45	57	63	65	63	57	51	59	657	55			4
5	56	48	60	49	50	65	72	65	66	58	64	68	721	60			5
6	51	65	66	53	61	67	68	64	70	66	62	62	755	63			6
7	64	55	59	62	65	65	68	68	69	61	67	68	771	64			7
8	64	67	59	65	61	61	72	60	59	55	56	56	735	61			8
9	49	56	52	59	69	58	65	71	66	68	65	59	737	61			9
10	67	59	58	62	62	55	50	59	60	50	45	59	686	57			10
11	55	58	64	65	51	58	68	60	73	60	63	61	736	61			11
12	61	61	56	56	62	48	62	61	63	58	58	52	698	58			12
13	56	53	56	61	54	59	65	59	58	53	51	56	681	57			13
14	56	63	56	55	58	66	67	59	61	60	54	50	705	59			14
15	65	66	61	60									(252)	(63)	4		15
16																	16
17																	17
18																	18
19																	19
20																	20
21						68	66	65	66	70	68	66	(471)	(67)	7		21
22	68	65	64	68	74	67	69	71	66	68	66	72	818	68			22
23	71	70	75	72	83	71	75	77	69	71	61	65	860	72			23
24	63	70	64	73	65	66	70	74	72	70	64	62	813	68			24
25	69	65	64	75	65	70	64	74	68	65	69	69	817	68			25
26	68	70	71	71	73	65	77	71	67	65	73	63	834	70			26
27	65	58	58	67	60	64	74	67	58	59	60	63	753	63			27
28	60	60	58	63	65	62	72	63	59	51	58	62	733	61			28
29	55	57	60	61	68	52	66	58	57	59	56	54	703	59			29
30																	30
31																	31
Sum	1291	1282	1293	1340	1353	1327	1458	1395	1373	1287	1287	1307	15993	1332	60.5	(22 d.)	
Mean	58.7	58.3	58.8	60.9	61.5	60.3	66.3	63.4	62.4	58.5	58.5	59.4	727.0	1462	60.9	(24d.)	
													60.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 322

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	61	55	58	58	62	66	68	62	62	63	65	60	740	62			1
2	56	61	63	64	63	61	75	63	61	63	58	60	748	62			2
3	58	61	59	57	57	64	62	65	53	58	54	52	700	58			3
4	56	49	49	53	53	58	54	52	54	48	54	60	640	53			4
5	60	59	58	63	63	66	61	58	58	48	55	55	704	59			5
6	50	52	45	53	56	50	56	56	54	52	56	53	633	53			6
7	43	49	59	49	53	55	53	61	49	49	55	55	630	52			7
8	54	47	58	62	62	64	57	65	62	62	63	57	713	60			8
9	65	57	53	61	68	62	59	53	61	60	56	66	721	60			9
10	61	56	56	49	52	56	47	49	49	47	48	52	622	52			10
11	57	50	48	49	48	60	54	60	46	62	54	54	642	54			11
12	54	65	59	66	63	58	59	63	62	60	58	62	729	61			12
13	59	64	59	62	67	62	60	64	71	61	67	62	758	63			13
14	58	62	67	65									(249)	(62)[4]			14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20
21						52	52	60	50	44	42	38	(341)	(49)[7]			21
22	46	56	50	56	51	63	61	50	47	39	49	56	624	52			22
23	47	44	48	49	48	42	53	51	46	51	48	37	564	47			23
24	52	46	47	49	51	55	62	65	57	50	43	44	621	54			24
25	42	53	55	48	58	62	56	61	52	62	58	57	664	55			25
26	49	55	52	54	49	58	56	59	54	53	58	62	659	55			26
27	51	55	67	59	60	63	64	64	60	59	58	64	724	60			27
28	63	61	65	56	72	55	63	55	64	59	67	64	744	63			28
29	72	58	73	71	60	58	66	62	56	62	63	63	764	64			29
30	64	67	53	52	48	58	57	61	63	50	53	53	679	57			30
31	59	52	54	49	55	55	55	49	51	57	52	47	635	53			31
Sum	1279	1272	1288	1289	1319	1351	1358	1348	1292	1275	1292	1295	15658	1309	56.9	(23d.)	
Mean	55.6	553	56.0	56.0	57.3	58.7	59.0	58.6	56.2	554	56.2	56.3	6806	1420	56.8	(25d)	
													56.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 323

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	48	54	55	51	46	56	53		63	51	57	63	(597)	(54)[11]			1
2	66	61	57	58	62	58	65						(427)	(61)[7]			2
3																	3
4						54	49	56	61	58	60	42	(380)	(54)[7]			4
5	43	40	45	55	50	56	61	58	52	62	62	60	644	54			5
6	61	60	59	60	62	67	63	61	69	60	60	57	739	62			6
7	63	65	60	47	63	48	71	65	63	55	64	62	726	60			7
8	60	65	55	58	64	63	63	70	59	53	58	64	732	61			8
9	61	54	58	56	56	53	59	57	60	54	62	50	680	57			9
10	62	58	57	52	62	62	56	52	54	50	54	53	672	56			10
11	58	55	59	57	62	58	64	59	58	60	58	61	709	59			11
12	54	58	62	52	61	52	47	63	55	52	49	39	644	54			12
13	46	50	55	49	52	50	54	55	50	42	44	44	591	49			13
14	42	64	56	59	58	56	64	57	54	62	52	56	670	56			14
15	48	68	66	62	66	72	66	68	63	57	61	63	760	63			15
16	69	57	64	55	58	70	61	56	58	59	65	58	730	61			16
17	55	51	53	58	55	63	67	59	60	53	55	48	677	56			17
18	51	55	56	60	49	64	64	59	65	55	62	49	689	57			18
19	53	63	63	60	64	58	55	58	52	57	60	61	704	59			19
20	60	54	53	63	64	65	64	60	54	47	51	61	696	58			20
21	68	67	62	62	63	56	49	48	47	55	47	47	671	56			21
22	46	54	52	55	51	48	58	43	43	48	54	46	598	50			22
23	44	42	45	58	56	46	45	49	45	48	61	55	594	50			23
24	50	57	56	58	48	46	59	53	46	52	47	53	625	52			24
25	52	59	53	62	54	48	51	51	52	62	53	48	645	54			25
26	49	57	48	50	56	51	53	54	50	50	54	57	629	52			26
27	56	55	52	46	55	56	52	45	60	56	50	54	637	53			27
28	55	51	57	45	51	53	55	54	48	56	52	49	626	54			28
29	57	50	50	45	38	45	43	53	44	49	44	41	559	47			29
30	49	37	41	39	41	45	52	55	56	48	41	42	546	46			30
31																	31
Sum	1412	1436	1437	1423	1459	1451	1496	1462	1417	1402	1420	1378	17193	1436	55.2	(26days)	
Mean	54.3	55.2	55.3	54.7	56.1	55.8	57.5	56.2	54.5	539	54.6	530	661.1	1605	55.3	(29 days)	
													55.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 324

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	39	43	47	44	41	44	47	59	55	43	45	45		552	46			1
2	45	45	44	51	41	42	45	50	39	52	49	47		550	46			2
3	54	45	49	46	43	47	46	41	42	46	40	52		551	46			3
4	43	52	56	51	49	50	44	52	44	46	45	36		568	47			4
5	45	50	42	45	45	53	47	42	46	50	41	37		543	45			5
6	46	43	45	38	58	43	42	53	44	51	31	41		535	45			6
7	43	55	46	50	58	47	55	47	40	47	40	41		569	47			7
8	39	53	44	45	53	57	53	51	53	49	42	39		578	48			8
9	46	50	48	47	51	57	61	57	53	49	54	52		625	52			9
10	49	48	54	59	52	56	49	61	54	51	45	53		631	53			10
11	47	49	52	47	58	57	60	64	56	48	47	47		632	53			11
12	50	54	56	55	62	66	58	67	71	63	60	54		716	60			12
13	62	55	54	63	65	52	63	68	65	61	57	51		716	60			13
14	54	64	59	66	56	54	61	65	58	58	54	56		705	59			14
15	58	57	51	54	54	59								(333)	(56)[6]			15
16																		16
17																		17
18																		18
19					49	48	44	57	52	52	58	55		(415)	(52)[8]			19
20	59	52	58	56	50	37	55	54	48	52	44	51		636	53			20
21	50	52	53	55	54	62	58	59	57	60	57	66		683	57			21
22	52	62	61	57	50	58	62	56	62	60	59	64		703	59			22
23	61	63	50	52	60	55	61	57	55	58	60	62		694	58			23
24	60	61	65	66	52	59	50	57	58	55	62	59		704	59			24
25	50	51	49	58	60	53	55	56	47	48	52	52		631	53			25
26	49	51	47	55	51	50	52	59	54	67	62	53		640	53			26
27	56	50	54	56	54	57	61	45	60	46	52	45		636	53			27
28	50	40	45	56	48	51	48	38	50	39	37	45		547	46			28
29	45	46	46	50	45	52	55	50	48	46	45	45		573	48			29
30	48	47	42	47	51	54	51	49	47	48	42	42		568	47			30
31	46	39	45	44	41	42	49	49	46	41	42	41		525	44			31
Sum	1288	1320	1311	1359	1348	1375	1388	1406	1352	1324	1264	1276		16011	1337	51.4	(26 days)	
Mean	49.5	50.8	50.4	52.3	51.8	52.9	53.4	54.1	52.0	50.9	48.6	49.1		615.8	1445	51.6	(28 days)	
														51.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 325

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	42	36	43	40	43	44	43	43	42	39	44	50		509	42			1
2	43	44	54	51	46	51	48	47	49	37	55	55		580	48			2
3	53	48	47	47	50	46	40	53	42	38	53	53		570	48			3
4	48	44	42	45	57	57	47	50	50	42	43	46		571	48			4
5	47	47	48	47	56	51	47	53	48	39	46	42		571	48			5
6	44	41	49	48	54	47	51	40	51	49	48	47		569	47			6
7	48	49	49	46	46	46	59	48	59	43	50	49		592	49			7
8	51	47	48	48	47	51	47	49	42	46	40	37		553	46			8
9	44	42	36	43	43	43	38	46	44	40	39	45		503	42			9
10	39	43	45	38	51	45	46	43	51	51	50	45		547	46			10
11	45	47	50	47	50	53	50	50	46	53	58	61		610	51			11
12	53	40	49	43	59	44	48	47	51	50	56	52		592	49			12
13	46	56	57	55	45	55	49	44	42	51	43	51		594	50			13
14	48	48	49	48	39	46	47	46	44	45	33	41		534	44			14
15	36	43	39	51	48	39	44	42	36	46	36	48		508	42			15
16	49	52	48	44	43	46	48	51	37	43	45	48		554	46			16
17	47	49	54	43	53	47	39	44	45	42	39	53		555	46			17
18	42	54	52	49	55	50	51	47	51	54	53	58		616	51			18
19	55	56	59	49	51	49	56	45	52	54	55	57		638	53			19
20	54	46	59	54	53	54	53	58	62	58	47	60		658	55			20
21	63	59	49	51	51	54	58	44	46	44	51	52		622	52			21
22	52	48	43	46	45	53	41	43	43	45	40	41		540	45			22
23	39	33	32	38	35	41	44	40	45	42	43	45		477	40			23
24	39	43	39	45	40	48	37	40	44	41	46	33		495	41			24
25	41	40	45	41	40	46	43	31	37	28	37	32		461	38			25
26	[																	26
27																		27
28													]					28
29	31	26	36	33	46	43	31	35	48	39	38	42		448	37			29
30	34	40	45	32	31	31	36	47	43	37	38	46		460	38			30
31																		31
Sum	1233	1221	1266	1222	1277	1280	1241	1226	1250	1196	1226	1289		14927	1242	46.0	(27 days)	
Mean	45.7	45.2	46.9	45.3	47.3	47.4	46.0	45.4	46.3	44.3	45.4	47.7		552.9				
														46.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 326

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1	38	46	41	45	44	38	40	41	40	45	26	37		481	40			1
2	35	36	41	31	28	38	37	33	36	33	25	29		402	34			2
3																		3
4																		4
5	35	43	28	42	41	46	36	44	43	43	42	33		476	40			5
6	35	45	45	42	43	33	52	46	41	37	41	40		500	42			6
7	48	49			47	41	41	39	37	43	40	45		(430)	(43)	10		7
8	47	44	39	48	41	35	41	50	44	38	49	41		517	43			8
9			40	40	41	45	45	39	39	41	37	46		(413)	(41)	10		9
10	37	42	50	53	53	39	45	45	51	44	50	46		555	46			10
11	48	38	38	55	45	51	56	61	42	48	51	45		578	48			11
12	43	55	45	50	52	48	45	53	53	51	43	55		593	49			12
13	53	52	48	48	53	53	53	51	47	43	45	51		597	50			13
14	50	48	54	55	58	53	54	51	40	43	44	47		597	50			14
15	52	54	65	50	46	51	48	47	46	45	51	45		600	50			15
16	46	49	50	49	52	52	54	50	40	51	44	53		590	49			16
17	52	51	47	45	56	51	51	51	42	43	46	43		578	48			17
18	52	52	49	48	49	41	47	39	42	50	48	50		567	47			18
19	49	47	54	47	47	48	52	54	47	53	49	45		592	49			19
20	48	51	47	52	56	48	49	58	43	51	51	49		603	50			20
21	46	52	46	47	40	45	48	49	51	45	36	49		554	46			21
22	46	48	45	34	37	40	44	48	48	41	44	41		516	43			22
23	39	43	44	33	35	38	36	50	52	47	44	45		506	42			23
24	40	39	47	46	37	49	49	53	47	49	45	42		543	45			24
25	49	40	46	47										(182)	(46)	4		25
26																		26
27																		27
28	40	42	47	43	39	52	50	48	56	53	54	42		566	47			28
29	44	49	53	47	53	55	53	51	51	53	51	42		602	50			29
30	44	41	44	49										(178)	(44)	4		30
31																		31
Sum	975	1026	1023	1010	1005	1004	1040	1073	1002	1006	979	970		12113	1008	45.8	(22d.)	
Mean	44.3	46.6	46.5	45.9	45.7	45.6	47.3	48.8	45.5	45.7	44.5	44.1		550.5	1182	45.5	(26d.)	
														45.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 327

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h		Sum	Mean			Day
1																		1
2																		2
3																		3
4					40	42	36	40	46	40	41	42		(327)	(41)	8		4
5	39	38	43	39	39	33	43	40	36	36	46	46		478	40			5
6	41	39	45	51	44	42								(262)	(44)	6		6
7																		7
8					44	46	48	34	40	43	40	46		(341)	(43)	8		8
9	42	45	49	51	42	47	38	50	38	34	37	39		512	43			9
10	46	42	55	51	45	43	49	40	42	42	49	46		550	46			10
11	42	45	54	45	50	46	36	38	45	44	52	43		540	45			11
12	48	35	38	31	49	41	38	38	40	48	40	37		483	40			12
13	50	45	45	53	43	43	47	49	45	50	56	56		582	48			13
14	49	46	39	48	48	51	58	51	49	51	52	48		590	49			14
15	52	56	53	57	49	65	52	54	54	49	50	54		645	54			15
16	45	40	50	45	46	50	59	53	52	47	42	49		578	48			16
17	46	43	40	46	50	45	46	55	56	40	56	51		574	48			17
18	45	47	52	44	50	49	48	54	48	49	53	51		590	49			18
19	43	44	36	48	46	48	56	49	49	49	53	49		570	48			19
20	58	43	43				50	39	35	42	45	38		(393)	(44)	9		20
21	45	44	32	30	37	44	43	46	30	41	42	32		466	39			21
22	36	37	41		42	39	33	43	41	39	39	45		(435)	(40)	11		22
23	41	46	48	53	43	49	44	45	43	40	49	42		543	45			23
24	47	52	49	42	49	52	42	49	42	51	48	48		571	48			24
25	47	42	42	47	43	44	40	43	38	43	44	37		510	42			25
26	50	45	48	51	43	43	50	46	45	43	51	45		560	47			26
27	40	41	44	43	40	44	40	37	48	42	44	41		504	42			27
28	46	45	35	46	28	40	39	38	34	31	48	32		462	38			28
29	38	40	43	49	44	46	42	43	45	36	45	34		505	42			29
30	36	36	40	39	45	43	40	41	36	36	49	42		483	40			30
31	40	38	41	42	40	43	46	43	41	39	39	44		496	41			31
Sum	977	955	976	1000	969	1009	996	1002	956	941	1045	966		11792	982	44.6	(22)	
Mean	44.4	43.4	44.4	45.5	44.0	45.9	45.3	45.5	43.5	42.8	47.5	43.9		536.1	1194	44.2	(27)	
														44.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 328

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	51				47	45	40	42	48	34	35	33		(375)	(42)	9		1
2	38	40	36	48	45	42	41	45	42	38	48	44		507	42			2
3	56	44	49	50	54	47	56	57	50	46	47	52		608	51			3
4	46	46	54	44	44	52	45	40	56	48	48	49		572	48			4
5	49	39	55	55	45	49	48	45	48	46	40	42		561	47			5
6	37	52	48	52	46	55	44	42	47	40	47	47		557	46			6
7	47	49	47	55	51	58	52	56	44	53	52	53		617	51			7
8	50	44	55	58	48	45	47	54	36	42	39	42		560	47			8
9	48	41	36	37	40	30	26	37	45	40	43	48		471	39			9
10	48	48	47	45	41	39	41	40	32	44	44	44		513	43			10
11	39	43	26	48	35	51	38	45	66	50	52	50		543	45			11
12	52	46	40	50	53	53	46	44	45	53	38	45		565	47			12
13	41	42	47	40	44	39	45	46	38	44	46	39		511	43			13
14	44	41	39	35	51	36	49	48	50	38	42	42		515	43			14
15	43	40	45	54	41	41	50	45	57	41	37	46		540	45			15
16	51	46	45	36	45	59	43	57	45	50	47	53		577	48			16
17	47	49	45	47	43									(231)	(46)	5		17
18																		18
19					38	44	45							(127)	(42)	3		19
20				50	48	40	56	46	56	44	45	51		(436)	(48)	9		20
21	53	51	52	51	47	45	46	50	44	48	45	52		584	49			21
22	47	52	48	56	57	48	50	56	48	49	60	49		620	52			22
23	58	53	57	50	57	47	50	57	58	53	51	54		645	54			23
24	54	48	45	51	44	50	44	51	46	46	50	45		574	48			24
25	45	47	50	46	46	45	51	43	50	44	45	37		549	46			25
26	46	47	44	45	50	46	45	40	38	41	39	41		522	44			26
27	31	48	40	44	44	36	46	39	42	43	35	36		484	40			27
28	35	34	39	38	33	32	40	39	37	33	28	39		427	36			28
29	33	33	42	33										(141)	(35)	4		29
30																		30
31																		31
Sum	1058	1041	1044	1088	1061	1045	1043	1076	1064	1030	1023	1049		12622	1054	45.8	(23)	
Mean	46.0	45.3	45.4	47.3	46.1	45.4	45.3	46.8	46.3	44.8	44.5	45.6		548.8	1267	45.2	(28)	
														(23) 45.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 329

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1						52	48	51	40	46	52	45		(334)	(48)	7		1
2	51	54	49	58	58	50	56	52	56	67	58	53		662	55			2
3	69	73	71	71	71	71	64	68	59	57	60	60		794	66			3
4	52	62	60	60	53	48	46	46	59	48	50	61		645	54			4
5	52	50	52	52	52	53	44	49	45	53	38	42		582	48			5
6	47	56	54	45	49	48	55	47	54	52	47	63		617	51			6
7	55	60	62	52	56	50	55	51	48	54	49	52		644	54			7
8	53	59	49	53	54	51	49	51	50	51	43	54		617	51			8
9	53	43	45	45	55	49	49	51	59	51	47	46		593	49			9
10	51	52	53	54	52	60	60	61	52	58	49	61		663	55			10
11	47	47	44	53	50	51	57	60	54	51	42	52		608	51			11
12	53	40	53	61	49	57	51	57	54	55	46	50		616	51			12
13	47	46	46	49	44	60	49	53	45	49	44	49		581	48			13
14	55	47	43	43	42	49	50	56	48	46	44	47		570	48			14
15	41	49	48	54	58	54	45	59	51	54	47	46		606	50			15
16	39	44	56	55	65	47	54	57	57	51	50	52		625	52			16
17	46	52	48	46	54	54	56	57	49	54	58	65		639	53			17
18	61	66	61	56	65	59	55	59	61	56	60	51		710	59			18
19	56	59	58	58	70	64	65	58	52	59	60	61		720	60			19
20	59	61	63	68	65	71	69	71	65	71	68	63		794	66			20
21	79	74	62	71	66	68	62	68	56	60	56	53		765	64			21
22	50	53	55	47	56	57	54	51	45	48	48	60		624	52			22
23	49	56	60	64	56	47	54	59	54	53	46	56		654	54			23
24	57	53	50	57	61	61	53	57	56	45	51	52		653	54			24
25	36	52	54	46	55	53	61	56	55	53	59	60		640	53			25
26	58	60	58	54	53	53	63	65	52	52	56	57		681	57			26
27	60	56	59	58	58	58	61	66	51	64	65	56		712	59			27
28	64	64	57	59	69	66	79	74	73	70	72	64		811	68			28
29	71	73	74	~~74~~	77	70	75	77	63	76	66	66		862	72			29
30	64	65	64	59	61	62	69	63	56	60	54	63		740	62			30
31	63	58	58	58	55	54	51	54	57	53	53	56		670	56			31
Sum	1636	1684	1666	1670	1729	1695	1711	1743	1636	1671	1586	1671		20098	1672	55.7	(30)	
Mean	54.5	56.1	55.5	55.7	57.6	56.5	57.0	58.1	54.5	55.7	52.9	55.7		669.8	1720	55.5	(31)	
														55.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 330

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	47	58	54	56	48								(263)	(62)	5	1
2																2
3						66	60	64	70	64	66	63	(453)	(65)	7	3
4	75	82	68	80	72	80	72	73	78	81	82	62	905	75		4
5	74	71	66	70	74	67	73	72	75	70	65	68	845	70		5
6	64	60	70	69	63	70	75	79	68	69	74	71	832	69		6
7	75	78	75	78	84	87	85	75	74	75	79	65	930	78		7
8	64	69	72	68	71	78	69	70	70	62	67	65	825	69		8
9	58	58	71	61	70	69	66	58	60	69	62	71	773	64		9
10	49	62	62	65	63	70	60	74	63	66	71	60	765	64		10
11	60	65	62	70	77	70	71	77	70	71	62	70	825	69		11
12	67	69	55	68	59	63	68	62	73	61	65	63	763	64		12
13	62	60	64	64	71	72	68	69	63	55	61	65	774	64		13
14	59	56	65	54	63	62	61	56	65	60	68	60	719	60		14
15	65	60	68	63	62	65	61	61	64	65	62	65	761	63		15
16	58	69	70	75	68	58	62	68	64	60	60	62	774	64		16
17	57	60	54	59	65	61	66	56	52	46	59	60	695	58		17
18	56	50	54	55	60	72	52	62	65	61	62	60	709	59		18
19	54	54	54	54	54	56	57	60	58	59	51	55	666	56		19
20	61	64	60	70	61	69	53	60	53	53	51	58	713	60		20
21	60	64	64	65	67	54	64	51	69	64	59	63	744	62		21
22	63	65	66	65	64	60	62	60	66	59	64	66	760	63		22
23	63	60	55	55	61	57	67	63	61	64	64	62	732	61		23
24	69	62	63	60	64	67	56	64	64	64	63	55	741	62		24
25	55	61	57	61	58	58	58	63	60	53	56	54	694	58		25
26	51	51	59	59	59	48	62	53	58	55	57	63	675	56		26
27	64	60											(124)	(62)	2	27
28					67	61	77	70	66	78	78	69	(566)	(71)	8	28
29	64	66	64	69	69	70	67	67	67	68	72	75	818	68		29
30	71	76	78	78	74	71	67	71	80	74	69	68	877	73		30
31																31
Sum	1554	1582	1586	1635	1653	1654	1622	1624	1640	1584	1595	1586	19315	1609	64.4 (25)	
Mean	62.2	63.3	63.4	65.4	66.1	66.2	64.9	65.0	65.6	63.4	63.8	63.4	772.7	1859	64.1 (29)	
													64.4			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 331

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1952

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	63	65	75	67	70	69	73	75	72	69	63	70	831	69		1
2	71	66	72	69									(278)	(70)	4	2
3									67	67	57	68	(259)	(65)	4	3
4	53	56	56	59	59	51	57	57	57	53	54	56	668	56		4
5	60				57	62	60	60	67	67	62	71	(566)	(63)	9	5
6	67	76	73	68	68	77	77	76	69	67	65	67	850	71		6
7	61	55	66	65	70	64	59	53	56	55	58	49	711	59		7
8	56	56	59	59	58	72	64	54	50	63	59	55	705	59		8
9	55	66	48	62	53	60	56	54	52	58	64	56	684	57		9
10	64	53	64	58	53	64	56	63	56	71	59	65	726	60		10
11	62	71	67	74	75	77	70	72	73	78	67	64	850	71		11
12	74	74	80	70	82	80	76	67	76	76	75	80	910	76		12
13	75	87	81	76	88	89	83	83	82	82	82	82	990	82		13
14	80	84	84	80	96	88	94	86	83	88	84	78	1025	86		14
15	74	79	82	90	93	83	85	89	83	87	82	82	1009	84		15
16	76	86	70	78	75	71	80	74	69	66	67	59	871	73		16
17	65	67	62	70	75	69	64	68	63	60	69	65	797	66		17
18	62	62	71	66	67	66	65	66	69	71	64	70	799	67		18
19	68	67	69	77	76	72	82	71	67	71	62	70	852	71		19
20	72	67	72	66	78	77	73	83	71	76	68	67	870	72		20
21	69	64	73	68	70	77	77	81	65	68	81	81	874	73		21
22	72	79	67	71	76	81	74						(520)	(74)	7	22
23																23
24							54	59	54	60	61	61	(349)	(58)	6	24
25	66	61	59	64	66	57	75	67	64	67	68	68	782	66		25
26	67	72	68	75	72	72	76	78	72	80	76	76	884	74		26
27	68	76	77	76	87	83	74	75	71	78	78	73	916	76		27
28	78	76	75	72	77	76	79	80	79	78	70	66	906	76		28
29	74	70	67	64	69	69	71	77	72	68	58	61	820	68		29
30	68	60	60	72	80	65	68	66	62	67	66	63	797	66		30
31	69	66	72	68	68	71	73	73	70	74	72	71	847	71		31
Sum	1686	1716	1730	1744	1825	1799	1807	1788	1703	1771	1711	1694	20974	1549	70.0 (25 days)	
Mean	67.4	68.6	69.2	69.8	72.9	72.0	72.3	71.5	68.1	70.8	68.4	67.8	8388	2079	69.3 (30 days)	
													69.9			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 332

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	61	64	72	69	69	68	68	67	62	54	68	58	780	65			1
2	68	56	66	59	66	77	69	73	70	70	77	61	812	68			2
3	74	78	76	77	81	79	79	85	80	77	77	80	943	79			3
4	68	81	84	86	86	89	86	82	78	83	78	69	970	81			4
5	85	70	78	86	82	82	83	90	84	80	78	75	973	81			5
6	82	82	74	80	82	74	83	72	72	72	70	62	905	75			6
7	63	71	68	65	66	63	69	74	65	61	65	67	797	66			7
8	62	67	70	62	60	66	69	69	62	64	66	66	783	65			8
9			65		60		65	66	60	64	55	65	(500)	(62)[8]			9
10	59	66	69	63	69	71	67	71	75	71	72	66	819	68			10
11	71	70	72	69	82	80	81	89	73	88	87	92	954	80			11
12	89	90	87	86	81	81	76			80	60	58	(788)	(79)[10]			12
13	78	75	68	77	71	74	71	72	62	68	58	59	833	69			13
14	60	62	66	64	68	68	60	60	66	64	53	56	747	62			14
15	60	54	63	69	60	68	56	64	62	54	57	62	729	61			15
16	52	54	58	61	60	53	67	63	68	60	62	71	729	61			16
17	67	74	60	65	60	72	70	59	65	67	67	66	792	66			17
18	61	60	56	68	67	60	63	72	67	68	62	69	773	64			18
19	64	70	71	71	70	66	69	68	67	65	65	64	810	68			19
20	63	64	66	65	67	73	65	80	67	60	63	62	195	66			20
21	70	61	67	72	68	58	70	70	63	64			(663)	(66)[10]			21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
Sum	1198	1218	1237	1256	1266	1283	1275	1310	1245	1226	1225	1205	14944	1245	69.2	(18)	
Mean	66.6	67.7	68.7	69.8	70.3	71.3	70.8	72.8	69.2	68.1	68.1	66.9	830.3	1452	69.1	(21)	
													69.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 333

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1																	1
2						77	77	75	65	76	73	78	(521)	(74)[7]			2
3	65	69	73	77	69	84	73	80	76	71	77	78	892	74			3
4	77	80	83	79	84	85	78	93	85	75	76	77	972	81			4
5	72	86	76	78	74	83	87	79	75	76	77	74	937	78			5
6	65	73	72	70	75	72	73	86	72	76	72	79	885	74			6
7	64	79	79	70	76	70	80	77	76	74	73	77	895	75			7
8	78	76	79	78	80	87	83	85	78	83	84	83	974	81			8
9	81	74	63	83	83								(384)	(77)[5]			9
10																	10
11					71	73	76	68	68	68	72	69	(565)	(71)[8]			11
12	68	65	69	68	82	70	65	71	71	86	79	80	874	73			12
13	89	84	83	75	86	81	79	78	72	72	81	73	953	79			13
14	74	80	75	71	84	77	75	67	67	72	60	69	871	73			14
15	64	60	70	68	73	63	62	65	70	64	71	70	800	67			15
16	54	73	67	66	77	63	71	67	62	61	63	62	786	66			16
17	68	58	68	72	77	79	78	77	76	78	80	75	886	74			17
18	85	77	80	78	78	74	81	79	84	81	76	75	948	79			18
19	68	73	68	75	72	78	79	72	74	59	71	69	858	72			19
20	62	65	73	68	74	65	62	63	64	66	63	68	793	66			20
21	63	65	68	57	60	69	71	65	76	69	68	64	795	66			21
22	70	69	68	72	68	74	69	72	77	69	71	72	851	71			22
23	71	78	75	83	73	78	79	76	76	70	64	68	891	74			23
24	72	69	73	75	75	76	78	72	74	69	69	66	868	72			24
25	72	74	67	78	74	79	71	72	71	64	80	68	870	72			25
26	65	75	74	73	74	77	79	86	76	76	74	78	907	76			26
27	83	81	81	79	77	78	74	78	78	83	81	81	954	80			27
28	80	91	80	76	77	82	87	83	86	84	80	78	984	82			28
29																	29
30																	30
31																	31
Sum	1629	1700	1701	1686	1739	1744	1734	1743	1716	1678	1690	1684	20444	1705	74.1	(23 days)	
Mean	70.8	73.9	74.0	73.3	75.6	75.8	75.4	75.8	74.6	73.0	73.5	73.2	8889	1927	74.1	(26 days)	
													74.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 334

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	84	88	79	83	75	73	77	71	76	68	72	67	913	76			1
2	73	71	75	75	70	78	75	60	63	58	62	63	823	69			2
3	63	58	60	70	72	60	64	57	60	58	54	56	732	61			3
4	56	59	58	62	68	67	66	63	66	64	72	73	774	64			4
5	74	73	83	79	91	86	73	75	78	79	86	81	958	80			5
6	78	77	71	72	79	69	75	79	83	76	76	70	905	75			6
7	74	70	70	76	70	66	82	76	74	78	76	70	882	74			7
8	74	81	87	77	90	89	90	87	77	83	83	100	1018	85			8
9	84	90	81	82	84	85	87	84	75	84	73	74	983	82			9
10	75	76	78	71	75	78	76	72	72	72	74	67	886	74			10
11	73	77	70	68	89	78	78	76	71	72	64	65	881	73			11
12	76	67	73	66	60	71	63	64	59	64	64	72	799	67			12
13	55	64	58	69	69	59	64	67	59	59	69	68	760	63			13
14	70	58	62	65	60	66	72	66	56	62	52	51	740	62			14
15	53	60	55	57	59	62	55	64	59	60	53	59	696	58			15
16	59	48	56	58	63	67	67	65	66	61	60	64	734	61			16
17	63	67	64	62	66	66	72	65	64	67	67	60	783	65			17
18	59	64	55	59	65	71	73	73	76	58	56	60	769	64			18
19	69	64	71	68	73	74	69	73	70	67	72	76	846	70			19
20	68	74	71	69	72	75	75	76	70	78	64	66	858	72			20
21	77	73	63	63	64	71	73	71	75	62	58	64	814	68			21
22	72	66	70	68	70	73	73	72	62	65	66	69	826	69			22
23	63	67	61	65	65	69	72						(462)	(66)[7]			23
24													—	—			24
25					71	84	75	78	75	68	77	79	(607)	(76)[8]			25
26	71	85	78	80	77	84	78	75	67	80	77	85	937	78			26
27	74	76	78	81	89	74	78	80	74	72	79	73	928	77			27
28	78	81	81	84	79	71	76	86	85	80	85	86	972	81			28
29	81	76	87	89	75	75	82	82	76	76	76	75	950	79			29
30	79	80	80	80	79	70	82	80	64	69	72	65	900	75			30
31	71	65	70	70	60	69	77	62	64	65	70	66	809	67			31
Sum	1983	1988	1984	2003	2043	2027	2072	2021	1941	1937	1932	1945	23876	1989	71.0	(28 days)	
Mean	70.8	71.0	70.9	71.5	73.0	72.4	74.0	72.2	69.3	69.2	69.0	69.5	8528	2131	71.0	(30 days)	
													71.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 335

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	66	71	65	65	63	67	65	67	67	77	73	70	816	68			1
2	68	64	65	68	66	70	71	75	66	78	71	72	834	70			2
3	67	71	71	74	72	77	72	68	75	66	69	68	850	71			3
4	69	75	73	69	77	72	71	72	72	70	74	70	864	72			4
5	70	74	63	72	74	80	80	71	75	71	66	77	873	73			5
6	74	68	74	80	70	69	66	74	59	68	71	63	836	70			6
7	64	72	70	76	64	74	68	68	66	67	70	[ ]	(759)	(69)[11]			7
8	[				]	65	73	69	65	72	64	65	(472)	(67)[7]			8
9	71	67	61	65	75	59	60	64	61	55	65	55	758	63			9
10	57	66	62	63	59	55	61	63	57	52	54	62	711	59			10
11	58	62	64	59	67	64	67	67	67	53	56	63	747	62			11
12	44	55	63	56	69	64	57	61	65	64	54	55	707	59			12
13	67	67	65	74	68	70	68	68	66	71	65	74	823	69			13
14	77	80	72	74	72	78	89	76	72	64	68	74	896	75			14
15	70	59	71	[			]	67	70	63	62	67	(529)	(66)[8]			15
16	66	65	67	73	74	67	74	73	69	76	68	68	840	70			16
17	69	66	62	64	70	78	68	70	71	58	60	55	791	66			17
18	62	63	61	64	61	[	]	62	65	59	60	56	(613)	(61)[10]			18
19	61	56	66	63	67	76	66	72	72	73	75	75	822	68			19
20	77	82	83	81	75	82	72	84	73	89	80	75	953	79			20
21	79	76	77	83	84	65	71	73	67	63	68	73	879	73			21
22	75	67	69	64	67	73	71	70	66	55	58	63	798	66			22
23	55	53	57	56	65	57	58	60	60	56	61	63	701	58			23
24	57	63	54	60	64	59	54	52	56	56	47	56	678	56			24
25	51	55	58	47	59	54	51	57	44	51	43	51	621	52			25
26	50	55	61	[ ]	68	71	59	55	64	51	63	65	(662)	(60)[11]			26
27	67	75	69	71	70	74	78	70	58	62	67	68	829	69			27
28	63	66	67	59	71	73	62	61	63	55	64	61	765	64			28
29	66	64	63	59	60	63	63	63	63	55	59	51	729	61			29
30	52	68	67	55	63	50	57	57	65	57	63	63	717	70			30
31																	31
Sum	1626	1676	1657	1654	1721	1696	1672	1688	1629	1595	1599	1625	19838	1663	66.5	(25 days)	
Mean	65.0	67.0	66.3	66.2	68.8	67.8	66.9	67.5	65.2	63.8	64.0	65.0	793.5	1986	66.2	(30 days)	
													66.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 336

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	62	61	63	63	69	52	65	58	59	55	58	55	720	60			1
2	62	64	60	62	57	56	59	59	57	58	63	51	708	59			2
3	60	61	57	63	61	62	60	66	61	62	60	57	730	61			3
4	60	66	58	63	62	60	58	61	55	59	60	58	720	60			4
5	59	57	63	57	52	62	56	55	52	53	56	56	678	56			5
6	46	55	55	60	65	47	60	58	52	52	48	51	649	54			6
7	54	47	49	55	63	63	65	63	56	61	52	49	677	56			7
8	56	56	54	57	59	61	68	59	62	58	67	55	712	59			8
9	63	60	62	66	58	58	66	62	57	53	54	64	723	60			9
10	58	58	54	55	50	47	56	53	61	53	56	54	655	55			10
11	55	46	49	50	53	58	58	56	49	54	55	60	643	54			11
12	46	55	53	46	52	58	60	52	58	49	49	58	636	53			12
13	44	42	56	53	54	50	55	51	49	51	57	54	616	51			13
14	51	60	48	46	49	58	63	55	62	59	51	59	661	55			14
15	55	50	50	53	67	64	60	51	56	57	50	54	667	56			15
16	59	61	63	60	57	60	54	46	44	51	46	45	646	54			16
17	48	50	52	54	46	57	54	46	45	50	42	49	593	49			17
18	45	52	56	55	52	59	61	50	50	61	52	53	646	54			18
19	53	62	65	57	58	59	64	[				]	(418)	(60)	7		19
20	[			]	50	54	50	51	52	49	48	51	(405)	(51)	8		20
21	[					]	61	51	57	51	53	52	(325)	(54)	6		21
22	58	46	48	54	52	53	54	52	53	52	54	49	625	52			22
23	50	53	46	46	53	50	54	57	49	57	57	56	628	52			23
24	52	61	58	64	59	61	64	50	47	51	51	53	671	56			24
25	47	59	50	59	48	55	48	54	54	48	52	49	623	52			25
26	53	48	45	60	59	57	64	50	49	45	52	48	630	52			26
27	50	60	59	65	66	62	59	52	63	48	51	65	700	58			27
28	57	61	62	62	68	56	66	64	54	56	54	59	719	60			28
29	58	54	56	56	60	56	50	56	52	53	60	51	662	55			29
30	48	54	52	43	53	59	49	48	58	43	50	52	609	51			30
31	53	56	58	52	52	60	56	55	63	57	59	[ ]	(618)	(56)	11		31
Sum	1456	1497	1478	1527	1644	1541	1586	1484	1464	1449	1457	1464	17947	1494	55.3	(27 days)	
Mean	53.9	55.4	54.7	56.6	57.2	57.1	58.7	55.0	54.2	53.7	54.0	54.2	6647	1715	55.4	(31 days)	
													55.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 337

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1		61	59	57	60	57	66	58	59	65	59	50	(651)	(59)	11		1
2	62	61	58	54	60	64	52	58	53	54	58	55	689	52			2
3	49	49	52	51	50	52	46	53	51	53	50	45	601	50			3
4	49	51	50	48	47	43	55	48	46	47	49	46	579	48			4
5	46	46	45	55	42	44	43	50	46	37	40	42	536	45			5
6	49	55	51	61	47	55	50	48	41	42	49	50	598	50			6
7	47	55	44	57	54	55	56	41	42	47	54	49	611	51			7
8	55	52	49	52	58	52	57	48	45	51	45	51	615	51			8
9	59	49	55	53	55	58	49	42	42	48			(510)	(51)	10		9
10													—	—			10
11					60	52	58	56		56	55	62	(399)	(57)	7		11
12	58	55	61	69	54	62	58	63	61	55	61	61	718	60			12
13	64	57	55	55	64	64	61	68	62	56	66	52	724	60			13
14	51	63	70	64	63	57	62	63	61	56	71	59	740	62			14
15	58	56	56	56	60	57	56	56	54	53	49	54	665	55			15
16	61	57	52	58	57	61	61	62	56	52	58	58	693	58			16
17	64	63	53	60	49	50	52	49	51	53	49	57	650	54			17
18	48	58	53	57	59	59	53	47	49	51	57	45	636	53			18
19	50	53	51	51	55	54	53	61	47	40	48	49	612	51			19
20	50	48	48	57	51	56	52	40	50				(452)	(50)	9		20
21													—	—			21
22													—	—			22
23													—	—			23
24								66	56	56	51	51	(280)	(56)	5		24
25	50	53	56										(159)	(53)	3		25
26					46	51	49	57	58	48	47	51	(407)	(51)	8		26
27	42	44	55	47	51	55	58	67	52	48	43	50	612	51			27
28	49	53	59	51	59	51	49	56	53	48	48	45	621	52			28
29	50				48	50	58	48	54	55	48	40	(451)	(50)	9		29
30	52	48	42	55	56	56	51	54	46	42	48	52	602	50			30
31																	31
Sum	956	976	956	1001	985	991	973	1000	916	885	943	920	11502	953	52.9	(18 days)	
Mean	53.1	54.2	53.1	55.6	54.7	55.0	54.1	55.6	50.9	49.2	52.4	51.1	6390	1380	53.1	(26 days)	
													53.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 338

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	48	46	51	50	46	45	41	44	45	49	42	48		555	46			1
2	52	53	53	50	48	46	51	40	46	49	46	48		582	48			2
3	44	46	51	57	56	56	50	51	46	54	46	53		610	51			3
4	48	48	46	53	57	51	53	53	46	47	47	61		610	51			4
5	43	57	49	59	54	48	47	50	49	42	51	44		593	49			5
6	50	48	56	54	56	48	52	39	36	47	45	52		583	49			6
7	38	48	46	56	54	48	50	44	52	46	55	50		587	49			7
8	50	57	54	52	48	50	56	44	54	48	52	62		627	52			8
9	54	57	58	53	46	58	58	50	51	56	44	47		632	53			9
10	53	57	59	57	46	58	52	53	58	59	55	63		670	56			10
11	56	67	57	58	58	55	41	50	44	56	60	55		657	55			11
12	52	60	58	48	45	44	50	50	49	53	55	56		620	52			12
13	56	50	53	43	53	53	54	45	50	45	43	49		594	50			13
14	52	50	45	42	49	50	61	40	49	45	50	59		592	49			14
15	55	55	46	44	55	42	36	45	35	44	50	50		557	46			15
16	48	50	46	49	48	50	32	42	41	42	49	56		553	46			16
17	56	53	48	41	52	46	51	50	45	53	37	53		585	49			17
18	51	59	54	48	55	53	49	55	46	53	42	53		618	52			18
19	53	49	46	41	46	50	47	49	49	42	47	46		565	47			19
20	52	56	46	53	49	55	58	53	48	48	39	55		612	51			20
21	57	55	51	47	47	61	55	56	55	50	62	52		648	54			21
22	53	42	49	47	59	52	46	59	51	53	50	60		621	52			22
23	55	53	56	44	49	52	56	50	49	49	42	45		600	50			23
24	51	42	46	50	57	50	54	49	43	43	42	47		574	48			24
25	46	45	50	48	40	42	49	53	47	45	40	49		554	46			25
26	47	53	41	47	47	48	51	42	48	48	42	32		546	46			26
27	47	41	34	42	41	46	46	49	39	45	43	49		522	44			27
28	43	45	45	53	46	51	46	48	47	49	44	51		568	47			28
29	33	47	47	54	43	51	45	49	40	48	37	40		534	44			29
30	43	40	45	44	48	44	42	39	34	40	38	52		509	42			30
31	44	41	56	53	50	42	43	46	52	55	44	46		572	48			31
Sum	1530	1570	1542	1537	1548	1545	1522	1487	1444	1503	1439	1583		18250	1522	49.1	(31 days)	
Mean	49.4	50.6	49.7	49.6	50.0	49.8	49.1	48.0	46.6	48.5	46.4	51.1		5888				
														49.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 339

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	52	49	50	47	44	51	52	48	47	49	48	45		582	48			1
2	53	55	48	55	49	49	39	46	41	39	47	48		569	47			2
3	50	47	45	50	42	53	46	45	47	55	46	53		579	48			3
4	45	53	45	51	47	44	41	46	48	50	45	44		559	47			4
5	46	48	44	48	40	44	41	40	46	45	44	48		534	44			5
6	44	42	55	52	45	46	49	53	49	41	43	48		567	47			6
7	48	46	54											(148)	(49)[3]			7
8																		8
9																		9
10																		10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19				53	59	55	52	53	49	52	49	56		(478)	(53)[9]			19
20	53	54	49	57	59	58	54	50	53	53	55	52		647	54			20
21	49	57	51	55	56	65	49	47	55	60	55	57		656	55			21
22	53	63	52	60	55	59	52	58	59	52	54	52		669	56			22
23	52	53	59	48	50	54	54	59	55	46	50	52		632	53			23
24	49	51	44	53	54	55	56	51	55	55	55	52		630	52			24
25	45	53	56	55	46	48	56	53	52	56	55	52		627	52			25
26	53	45	51	49	48	61	52	54	56	51	50	47		617	51			26
27	46	48	49	49	62	60	49	54	49	51	45	46		608	51			27
28	50	43	49	51	53	59	42	53	56	54	52	66		628	52			28
29	43	46	52	50	51	56	50	44	48	48	51	48		587	49			29
30	53	48	50	57	49	51	48	44	46	46	41	49		582	48			30
31	53	51	55	46	40	45	52	42	53	47	46	45		575	48			31
Sum	889	906	904	933	890	958	882	887	915	898	882	904		10848	902	50.1	(18 days)	
Mean	49.4	50.3	50.2	51.8	49.4	53.2	49.0	49.3	50.8	49.9	49.0	50.2		6025	1004	50.2	(20 days)	
														50.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 340

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	51	57	47	54	54	56	51	47	51	43	53	49	613	51			1
2	56	60	51	41	46	46	46	43	48	46	52	53	588	49			2
3	46	46	58	55	51	57	48	36	41	40	46	43	567	47			3
4	49	51	47	59	49	52	48	55	49	47	48	44	598	50			4
5	52	49	59	51	60	45	47	49	49	58	51	54	624	52			5
6	51	58	64	50	46	51	51	50	50	54	47	53	625	52			6
7	55	54	58	45	50	40	53	50	50	49	46	53	603	50			7
8	48	55	48	53	50	45	51	54	47	42	56	47	596	50			8
9	60	55	57	56	49	54	51	56	55	58	55	59	665	55			9
10	55	58	61	52	61	54	47	56	57	57	54	60	672	56			10
11	64	47	60	56	48	55	53	58	61	55	51	44	652	54			11
12	48	50	49	51	54	53	54	55	54	43	52	58	621	52			12
13	55	53	63	61	59	64	66	54	50	59	60	52	696	58			13
14	55	57	57	59	67	63	58	64	51	58	53	57	699	58			14
15	50	56	64	56	57	64	58	51	54	44	45	55	654	54			15
16	48	53	53	39	42	61	46	51	56	48	41	49	587	49			16
17	52	58	52	60	51	54	53	50	53	52	52	58	645	54			17
18	52	54	50	53	60	59	48	64	51	48	51	51	641	53			18
19	55	49	50	41	50	58	54	48	56	53	55	59	628	52			19
20	46	52	58	54	45	54	54	54	50	55	54	56	632	53			20
21	43	48	56	53	54	53	53	54	51	56	56	53	630	52			21
22	53	62	60	61	55	54	50	53	52	55	51	59	665	55			22
23	54	54	56	54	52	54	56	61	47	55	56	49	648	54			23
24	58	60	56	54	50	54	57	47	47	51	45	47	626	52			24
25	55	47	51	53	50	60	51	52	54	48	50	60	631	53			25
26	48	54	46	48	48	50	52	58	55	42	52	48	601	50			26
27	52	55	56	53	56	50	45	45	44	49	46	56	607	51			27
28	53	57	54	49	54	52	49	46	50	50	48	44	606	50			28
29	42	52	44	52	51	58	41	50	46	46	49	52	583	49			29
30	58	52	49	52	58	52	53	62	55	54	56	56	657	55			30
31																	31
Sum	1564	1613	1634	1575	1577	1622	1544	1573	1534	1515	1531	1578	18860	1570	52.3	(30 days)	
Mean	52.1	53.8	54.4	52.5	52.6	54.1	51.5	52.4	51.1	50.5	51.0	52.6	6286				
													52.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 341

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	52	60	60	52	56	49	53	57	48	48	59	61	655	55			1
2	58	65	63	54	59	53	56	59	53	60	62	58	700	58			2
3	62	53	58	61	53	52	51	55	52	50	51	57	655	55			3
4	54	55	61	58	55	45	52	51	53	56	54	62	656	55			4
5	52	58	60	62	51	48	54	56	48	63	57	59	668	56			5
6	58	65	71	62	61	58	62	60	59	62	66	69	753	63			6
7	64	74	68	68	65	66	55	61	62	62	62	54	761	63			7
8	63	59	61	53	61	50	60	53	64	60	54	55	693	58			8
9	55	50	56	44	58	54	55	55	57	44	53	57	638	53			9
10	58	54	42	48	56	62	52	57	54	57	55	48	643	54			10
11	47	53	65	58	45	57	60	63	55	50	49	60	662	55			11
12	45	53	59	52	58	59	59	58	60	53	49	53	658	55			12
13	60	61	50	53	52	55	58	61	58	59	62	58	687	57			13
14	52	53	57	48	58	72	63	53	63	49	61	56	685	57			14
15	52	53	55	60	57	59	59	56	57	53	59	51	671	56			15
16	58	60	55	62	61	57	54	50	55	46	58	56	672	56			16
17	60	64	61	63	62	54	48	58	51	48	51	58	678	56			17
18	60	59	56	59	50	54	51	51	52	53	51	60	656	55			18
19	55	63	57	56	63	62	58	68	58	57	53	61	711	59			19
20	58	58	65	62	66	65	62	62	64	63	56	62	743	62			20
21	52	66	56	63	56	66	62	61	65	65	64	64	740	62			21
22	75	68	67	69	67	65	70	63	64	69	68	65	810	68			22
23	68	60	67	73	71	54	61	65	58	62	56	62	757	63			23
24	69	66	70	58	64	64	57	67	70	67	59	67	778	65			24
25	66	75	69	67									(277)	(69)	*		25
26						62	59	56	57	59	59	56	(408)	(58)	7		26
27	60	63	51	64	55	67	67	60	57	58	56	59	717	60			27
28	62	67	61	62	58	64	62	64	70	62	71	67	770	64			28
29	68	62	66	67	67	70	67	70	67	73	71	60	808	67			29
30	65	58	69	73	61	65	58	64	62	60	63	61	759	63			30
31	52	57	51	58	58	74	59	69	60	55	57	52	702	58			31
Sum	1694	1737	1738	1722	1704	1720	1685	1727	1696	1664	1687	1712	20486	1708	58.9	(29 days)	
Mean	58.4	59.9	59.9	59.4	58.8	59.3	58.1	59.6	58.5	57.4	58.2	59.0	7065	1835	59.0	(31 days)	
													58.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 342

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean						Day
1	57	63	63	53	62	68	67	70	65	53	62	57		740	62						1
2	63	52	60	56	56	70	58	62	60	58	60	55		710	59						2
3	61	56	66	63	62	59	66	68	59	60	54	67		741	62						3
4	63	60	65	71	70	68	66	65	70	69	72	75		814	68						4
5	73	78	70	73	77	77	70	78	73	74	73	70		886	74						5
6	74	70	74	74	68	72	73	67	70	66	70	67		845	70						6
7	64	65	67	69	66	66	60	66	63	57	65	62		770	64						7
8	64	60	62	63	64	58	57	60	63	62	63	61		737	61						8
9	57	63	52	64	61	61	63	58	58	55	62	60		714	60						9
10	61	59	57	64	73	63	66	62	63	63	70	68		769	64						10
11	63	68	62	69	63	72	66	68	65	55	73	62		786	66						11
12	62	70	66	68	58	66	63	63	61	59	67	52		755	63						12
13	56	59	53	60	63	60	67	62	66	64	60	62		732	61						13
14	66	65	61	64	66	62	61	63	58	56	53	68		743	62						14
15	67	60	54	64	56	66	71	56	62	62	59	61		738	62						15
16	56	54	59	65	62	54	56	59	63	66	75	58		727	61						16
17	68	69	73	64	69	71	70	65	72	63	60	71		815	68						17
18	58	58	64	63	62	65	68	60	61	67	61	69		756	63						18
19	62	73	72	65	65	69	61	69	59	65	67	65		792	66						19
20	61	66	73	75	65	69	71	61	64	60	64	62		791	66						20
21	66	59	71	70	65	77	63	67	69	65	72	66		810	68						21
22	72	63	64	65	61	63	66	61	59	64	77	57		772	64						22
23	70	63	72	79	75	68	71	67	71	70	73	69		848	71						23
24	63	73	75	73	75	70	69	68	69	70	69	73		847	71						24
25	69	66	61	73	77	74	81	79	76	75	66	77		874	73						25
26	78	84	71	77	83	83	87	81	85	76	83	79		967	81						26
27	87	83	79	77	86	90	81	83	86	79	81	86		998	83						27
28	81	80	86	88	85	85	89	92	88	80	79	78		1011	84						28
29	82	80	74	88	76	76	81	76	77	76	81	81		948	79						29
30	88	80	77	81	82	76	74	87	81	79	89	77		971	81						30
31																					31
Sum	2012	1999	2003	2078	2053	2078	2062	2043	2036	1968	2060	2015		24407	2037	67.9		(30 days)			
Mean	67.1	66.6	66.8	69.3	68.4	69.3	687	68.1	67.9	65.6	68.7	67.2		813.7							
														67.8							

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 343

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1953

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean						Day
1	78	84	89	85	90	80	84	85	80	75	79	73		982	82						1
2	68	77	69	68	64	74	67	70	71	65	65	66		824	69						2
3	75	72	73	68	70	67	62	63	60	60	65	60		795	66						3
4	57	64	66	65	62	68	72	67	73	59	56	67		776	65						4
5	70	64	68	73	68	68	60	62	64	61	64	65		787	66						5
6	60	57	64	57	63	67	61	56	63	52	64	65		729	61						6
7	66	64	72	73	75	76	81	70	60	69	72	67		845	70						7
8	71	75	70	64	66	66	69	72	58	62	69	57		799	67						8
9	58	60	61	64	57	62	60	63	64	57	70			(676)	(61)^{11}						9
10														–	–						10
11						63	68	67	67	65	59	64		(453)	(65)^{7}						11
12	65	71	62	60	68	62	67	65	62	63	68	65		778	65						12
13	63	58	63	60	60	68	60	63	63	62	72	66		758	63						13
14	68	59	58	61										(246)	(62)^{4}						14
15														–	–						15
16					84	85	86	83	89	89	94	84		(694)	(87)^{8}						16
17	90	86	90	93	89	90	86	86	93	89	85	91		1068	89						17
18	89	98	95	90	90	89	90	83	90	93	79	86		1072	89						18
19	73	79	87	86	80	75	79	82	80	77	82	74		954	80						19
20	75	75	64	72	72	78	70	77	75	79	69	72		878	73						20
21	69	68	67	71	66	70	70	70	63	73	65	72		824	69						21
22	64	65	65	74	72	72	63	74	71	61	67	63		811	68						22
23	66	61	73	76	80	83	75	84	67	78	81	76		900	75						23
24	80	76	80	85	84	93	85	79	76	72	66	69		945	79						24
25	79	69	73	85	85	83	76	77	83	82	78	73		943	79						25
26	87	83	83	80	82	87	79	83	81	74	82	84		985	82						26
27	75	85	80	86	77	75	77	77	78	75	75	75		935	78						27
28	74	73	76	81	80	71	73	67	70	80	76	78		899	75						28
29	73	73	69	74	74	73	68	73	67	76	73	69		862	72						29
30	65	64	79	81	75	74	74	84	81	81	75	82		915	76						30
31	76	83	84	82	83	88	93	86	80	89	85	90		1019	85						31
Sum	1808	1824	1861	1889	1875	1897	1841	1855	1809	1807	1812	1805		22083	1843		73.7		(25 days)		
Mean	72.3	73.0	74.4	75.6	75.0	76.0	73.6	74.2	72.4	72.3	72.5	72.2		8835	2118		73.0		(29 days)		
														73.6							

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 344

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	78	85	81	76	75	76	83	83	72	80	80	72	941	78		1
2	82	84	74	74	72	76	80	80	81	72	79	78	932	78		2
3	66	69	77	73	79	80	82	80	80	77	80	78	921	77		3
4	73	69	73	85	76	82	77	73	78	72	70	70	898	75		4
5	79	76	76	88	71	76	77	78	79	76	75	85	936	78		5
6	89	78	89	90	87	85	92	82	94	92	83	75	1036	86		6
7	89	94	87	79	84	85	80	89	79	84	77	91	1018	85		7
8	89	71	67	79	78	82	81	77	69	65	60	74	892	74		8
9	73	75	61	65	74	71	70	70	63	64	62	71	819	68		9
10	73	79	68	75	74	83	80	65	68	77	76	71	889	74		10
11	72	78	72	75	75	71	80	83	76	78	80	86	926	77		11
12	90	79	89	91	90	86	84	91	95	98	96	90	1079	90		12
13	86	84	80	83	96	80	87	84	79	83	68	75	985	82		13
14	80	72	80	77	88	81	82	78	80	70	76	57	921	77		14
15	65	67	67	69	72	72	68	74	75	77	75	71	852	71		15
16	67	76	69	69	77	69	82	84	88	77	69	77	904	75		16
17	74	78	79	80	88	92	96	79	86	89	80	82	1003	84		17
18	84	73	79	85	87	80	76	80	80	79	75	67	945	79		18
19	72	64	76	79	71	77	74	67	75	70	67	70	862	72		19
20	70	66	65	70	76	72	69	65	60	59	65	77	814	68		20
21	71	67	69	68	68	66	77	75	66	71	71	77	846	70		21
22	76	74	73	82	85	81	82	87	73	71	73	71	928	77		22
23	71	68	71	70	78	75	83	79	77	68	72	67	879	73		23
24	67	75	76	69	81	70	74	68	67	65	64	62	838	70		24
25	67	68	67	71	74	64	65	66	68	65	63	72	810	68		25
26	71	69	68	69	61	67	68	66	71	79	59	74	822	68		26
27	65	70	64	78	67	70	79	71	71	79	79	83	876	73		27
28	86	94	84	80	87	93	84	98	91	79	89	80	1045	87		28
29	90	92	84	79	85	85	89	77	80	83	77	82	1003	84		29
30	76	83	88	83	84	84	81	86	87	87	83	80	1002	84		30
31	90	84	92	99	92	87	92	95	93	90	92	90	1096	91		31
Sum	2381	2361	2345	2410	2452	2418	2474	2430	2401	2376	2315	2355	28718	2393	77.2 (31 days)	
Mean	76.8	76.2	75.6	77.7	79.1	78.0	79.8	78.4	77.5	76.6	74.7	76.0	9264			
													77.2			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 345

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean		Day
1	81	98	92	90	90	84	88	84	86	90	90	77	1050	88		1
2	83	88	88	92	97	94	92	97	96	90	82	92	1091	91		2
3	93	91	97	89	94	95	88	88	95	92	85	100	1107	92		3
4	90	89	88	95	97	92	91	96	90	95	90	99	1112	93		4
5	93	89	85	94	86	83	92	91	84	86	86	86	1055	88		5
6	95	90	85	87	87	90	91	85	77	78	88	93	1046	87		6
7	80	80	81	95	88	76	77	81	75	84	80	79	976	81		7
8	86	77	82	80	79	84	77	88	85	86	86	88	998	83		8
9	86	92	92	91	91	89	86	84	86	82	82	78	1039	87		9
10	76	77	84	75	72	80	75	78	71	81	75	71	915	76		10
11	74	71	84	77	73	76	69	77	82	90	82	81	936	78		11
12	83	86	93	83	99	95	85	94	89	91	99	93	1090	91		12
13	87	90	93	81	86	84	78	78	82	75	83	77	988	82		13
14	77	87	73	70	75	80	75	72	76	68	58	66	877	73		14
15	69	58	68	69	64	71	64	70	66	63	65	60	787	66		15
16	64	70	69	63	67	72	76	66	68	72	70	67	824	69		16
17	68	65	72	71	84	74	83	79	76	73	76	72	893	74		17
18	80	73	72	75	80	74	79	86	79	73	79	73	923	77		18
19	66	78	74	80	83	77	79	80	76	69	78	66	906	76		19
20	79	85	76	74	77	68	65	71	75	67	81	71	889	74		20
21	70	69	73	69	70	77	74	83	70	74	78	70	877	73		21
22	76	72	80	76	81	75	77	79	87	77	78	83	941	78		22
23	82	76	75	83	75	78	78	81	76	77	77	85	943	79		23
24	79	80	76	81	85	67	84	82	76	82	83	78	953	79		24
25	79	80	89	84	87	78	85	84	83	78	82	84	993	83		25
26	79	80	73	84	88	91	90	91	80	77	81	86	1000	83		26
27	76	77	85	81	77	74	70	80	82	77	77	78	934	78		27
28	78	66	67	82	77	72	74	69	76	74	70	68	873	73		28
29																29
30																30
31																31
Sum	2229	2234	2266	2271	2303	2250	2242	2294	2244	2221	2241	2221	27016	2252	80.4 (28 days)	
Mean	79.6	79.8	80.9	81.1	82.2	80.4	80.1	81.9	80.1	79.3	80.0	79.3		9647		
														80.4		

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 346

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	68	74	74	70	70	80	73	83	82	77	84	84	919	77			1
2	82	73	80	86	82	77	80	80	78	79	84	79	960	80			2
3	81	81	82	86	81	78	80	76	82	88	85	88	988	82			3
4	92	89	99	85	92	82	95	83	88	87	88	81	1061	88			4
5	89	82	90	89	94	90	87	88	85	86	86	85	1051	88			5
6	89	89	87	88	86	91	95	90	96	86	67	76	1040	87			6
7	79	90	83	83	77	74	72	68	69	71	69	80	915	76			7
8	81	82	84	85	82	76	86	75	74	82	83	80	970	81			8
9	81	75	76	82	80	82	84	81	79	75	79	79	953	79			9
10	75	76	83	80	88	83	76	86	81	75	77	79	959	80			10
11	84	82	77	86	82	82	71	77	71	75	65	65	925	77			11
12	69	74	64	70	87	72	72	71	71	75	67	65	857	71			12
13	78	71	80	68	68	70	82	74	68	74	62	68	863	72			13
14	83	73	74	81	86	80	88	81	75	87	82	79	969	81			14
15	88	89	88	94	90	95	94	91	97	96	88	85	1095	91			15
16	92	91	93	92	85	82	84	88	82	87	85	80	1041	87			16
17	83	85	85	72	86	86	83	74	84	86	85	84	993	83			17
18	84	91	85	88	75	80	82	88	83	76	75	72	979	82			18
19	72	79	77	72	79	70	76	68	66	74	68	72	873	73			19
20	79	68	74	83	85	80	81	84	92	82	78	78	964	80			20
21	87	92	80	73	81	89	95	87	93	91	85	98	1071	89			21
22	88	93	88	89	90	89	87	93	85	75	82	81	1040	87			22
23	78	90	86	85	85	77	79	73	72	79	78	76	958	80			23
24	72	72	63	72	70	76	67	66	76	62	63	72	831	69			24
25	70	61	66	67	64	72	65	66	54	56	64	64	769	64			25
26	61	65	57	68	74	70	73	71	73	73	75	80	840	70			26
27	68	71	79	72	74	78	75	77	72	69	81	83	899	75			27
28	75	75	72	68	83	76	76	71	80	68	68	73	885	74			28
29	71	78	68	70	74	76	65	70	68	74	71	73	858	72			29
30	73	74	73	66	85	67	65	72	71	66	71	76	859	72			30
31	78	79	73	77	71	80	76	71	78	61	77	70	891	74			31
Sum	2450	2464	2440	2467	2506	2460	2472	2423	2425	2392	2372	2405	29276	2441	78.7	(31 days)	
Mean	79.0	79.5	78.7	79.6	80.8	79.4	79.7	78.2	78.2	77.2	76.5	77.6	9444				
													78.7				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 347

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	76	85	77	74	79	75	77	75	73	74	71	84	920	77			1
2	88	88	78	82	87	79	74	78	83	86	75	76	974	81			2
3	71	77	84	81	76	82	75	84	74	76	83	82	945	79			3
4	82	79	85	79	77	76	78	75	74	72	72	74	923	77			4
5	67	72	73	67	66	71	69	73	70	64	60	66	818	68			5
6	70	68	73	65	66	58	67	66	76	57	60	63	789	66			6
7	65	69	76	67	68	72	66	75	63	59	61	65	806	67			7
8	65	61	56	54	56	61	62	61	67	70	68	77	758	63			8
9	70	75	70	69	69	74	83	67	74	69	74	66	860	72			9
10	70	64	65	64	72	76	67	70	67	59	61	69	804	67			10
11	62	68	70	67	67	66	62	61	60	66	54	62	765	64			11
12	71	70	68	70	73	69	77	69	64	71	66	72	840	70			12
13	59	60	64	74	72	68	76	74	74	69	72	71	833	69			13
14	75	74	70	62	69	69	66	63	69	63	61	70	811	68			14
15	82	66	63	63	62	63	64	57	64	58	62	74	778	65			15
16	72	59	63	70	65	56	60	55	62	55	57	58	732	61			16
17	64	62	62	67	72	71	72	74	78	77	74	72	845	70			17
18	64	75	69	74	77	69	64	66	68	61	62	57	806	67			18
19	61	66	68	76	65	63	61	58	62	69	66	60	775	65			19
20	62	62	61	62	59	61	69	67	61	64	64	63	755	63			20
21	61	64	61	70	66	67	70	70	63	71	71	67	801	67			21
22	65	68	64	66	69	72	61	66	61	66	67	60	785	65			22
23	72	73	75	66	72	68	60	64	59	63	64	70	806	67			23
24	63	67	62	77	75	67	73	72	70	57	65	72	820	68			24
25	60	72	66	63	67	60	62	64	71	61	60	59	765	64			25
26	61	66	65	61	56	77	60	61	55	57	69	62	750	62			26
27	68	72	60	64	58	57	62	64	61	66	67	69	768	64			27
28	64	67	62	66	66	62	70	68	61	74	66	69	795	66			28
29	59	67	57	66	68	62	60	61	64	58	61	60	743	62			29
30	52	56	57	56	59	57	59	64	58	59	49	50	676	56			30
31																	31
Sum	2021	2072	2024	2042	2053	2028	2026	2022	2036	1971	1962	2019	24246	2020	67.3	(30 days)	
Mean	67.4	69.1	67.5	68.1	68.4	67.6	67.5	67.4	67.9	65.7	65.4	67.3	808.3				
													67.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 348

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1	59	59	61	55	61	51	60	50	58	54	52	56		676	56				1
2	59	55	62	55	54	55	63	62	58	52	60	56		696	58				2
3	61	61	61	65	63	57	66	62	62	65	62	65		750	62				3
4	66	63	72	79	65	69	71	64	66	78	64	75		832	69				4
5	64	68	76	69	71	77	67	73	83	75	64	72		859	72				5
6	69	73	70	78	74	68	76	68	73	69	69	74		861	72				6
7	79	73	69	70	65	66	64	70	70	63	67	67		823	69				7
8	77	64	63	67	73	70	73	76	65	80	63	73		844	70				8
9	73	76	66	78	79	72	72	73	72	72	76	72		881	73				9
10	69	74	75	78	74	77	80	78	72	73	69	74		893	74				10
11	80	70	70	69	69	72	68	67	67	62	72	64		830	69				11
12	66	70	69	72	75	65	68	68	60	56	57	71		797	66				12
13	61	66	66	66	59	57	51	65	57	57	61	61		727	61				13
14	61	61	54	65	63	61	63	64	65	61	59	61		738	62				14
15	62	50	60	60	63	66	60	60	63	62	63	60		729	61				15
16	68	67	68	60	62	58	59	54	65	59	59	64		743	62				16
17	73	61	62	58	60	72	66	65	63	60	64	61		765	64				17
18																			18
19																			19
20																			20
21																			21
22																			22
23																			23
24																			24
25																			25
26																			26
27																			27
28																			28
29																			29
30																			30
31																			31
Sum	1147	1111	1124	1144	1135	1113	1127	1119	1119	1098	1081	1126		13444	1120	65.9	(17 days)		
Mean	67.5	65.4	66.1	67.3	66.8	65.5	66.3	65.8	65.8	64.6	63.6	66.2		7909 65.9					

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 349

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean				Day
1								61	50	55	55	57		(278)	(56)[5]				1
2	59	59	66	65	71	52	69	61	55	66	62	64		749	62				2
3	66	58	61	60	69	65	60	58	67	60	59	67		750	62				3
4	56	61	60	70	57	58	69	65	60	67	56	71		750	62				4
5	68	75	67	60	66	68	71	67	66	63	65	60		796	66				5
6	74	64	69	62	69	64	66	55	72	55	60	60		770	64				6
7	62	65	60	62										(249)	(62)[4]				7
8					57	52	61	55	67	58	67	49		(466)	(58)[8]				8
9	64	56	63	63	53	61	58	58	62	61	52	47		698	58				9
10	58	59	55	53	61	61	59	52	56	60	54	60		688	57				10
11	51	59	56	53	59	61	50	59	59	55	53	58		673	56				11
12	58	49	62	48	55	57	53	53	58	62	59	59		673	56				12
13	61	58	52	61	53	50	71	54	51	52	55	63		681	57				13
14	60	58	62	67	68	59	52	54	60	62	59	65		726	60				14
15	54	54	58	60	53	56	56	53	57	58	63	56		678	56				15
16	52	54	56	53	63	64	58	62	51	56	58	68		695	58				16
17	61	52	56	45	57	52	62	51	55	55	54	47		647	54				17
18	56	53	60	51	53	58	57	48	57	55	52	64		664	55				18
19	59	62	62	51	53	50	57	50	52	48	53	47		644	54				19
20	51	49	59	51	57	50	50	57	55	47	49	44		619	52				20
21	61	45	55	49	47	57	58	62	50	53	53	58		648	54				21
22	54	52	62	56	53	55	52	51	45	47	49	56		632	53				22
23	55	57	64	49	60	61	64	56	60	59	62	64		711	59				23
24	59	57	60	60	65	56	49	57	52	60	60	51		686	57				24
25	56	59	58	51	54	56	49	53	53	47	59	53		648	54				25
26	51	55	57	55	53	52	52	52	51	56	56	54		644	54				26
27	53	59	63	52	56	54	57	58	46	67	65	55		685	57				27
28	60	71	58	58	67	52	64	65	57	61	53	57		723	60				28
29	59	64	53	57	55	68	62	67	49	60	60	58		712	59				29
30	56	52	50	54	52	57	51	57	54	61	53	54		651	54				30
31																			31
Sum	1572	1551	1604	1514	1579	1554	1576	1535	1510	1553	1533	1560		18641	1550	57.4	(27 days)		
Mean	58.2	57.4	59.4	56.1	58.5	57.6	58.4	56.9	55.9	57.5	56.8	57.8		690.5 57.5	1726	57.5	(30 days)		

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 350

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	55	60	63	58	57	54	51	55	56	56	54	53	672	56			1
2	59	59	50	50	58	58	57	65	47	49	58	59	669	56			2
3	61	67	45	64	56	59	68	54	59	49	61	60	703	59			3
4	51	61	56	51	65	54	60	64	62	54	67	58	703	59			4
5	58	68	60	62	65	61	63	62	70	61	56	67	753	63			5
6	61	65	62	69	72	60	62	61	65	58	61	53	749	62			6
7	59	62	53	53	45	55							(327)	(54)[6]			7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16					58	62							(120)	(60)[2]			16
17																	17
18																	18
19																	19
20					50	52	51	53	56	56	57		(375)	(53)[7]			20
21																	21
22								56	58	61	60	64	(299)	(60)[5]			22
23	54	61	61	64	57	61	58	55	52	53	60	54	690	58			23
24	57	56	58	59	60	52	61	58	58	53	54	64	690	58			24
25	54	68	53	66	52	56	58	60	51	48	52	58	676	56			25
26	60	70	60	57	55	55	59	51	58	63	51	59	698	58			26
27	63	63	55	55	53	61	55	57	54	56	65	50	687	57			27
28	52	53	56	63	55	53	61	50	55	60	66	64	688	57			28
29	52	50	64	57	62	58	58	56	58	58	57	56	686	57			29
30	62	63	59	50	59	48	58	50	55	53	57	52	666	56			30
31	61	63	60	62	55	66	59	58	55	63	58	65	725	60			31
Sum	860	927	862	887	881	856	888	856	855	834	877	872	10455	872	58.1	(15 days)	
Mean	57.3	61.8	57.5	59.1	58.7	57.1	59.2	57.1	57.0	55.6	58.5	58.1	697.0	1099	57.9	(19 days)	
													58.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 351

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	62	58	64	68	55	56	60	55	61	62	62	62	725	60			1
2	61	67	62	63	59	64	62	63	59	63	60	63	746	62			2
3	71	57	65	59	59	56	56	54	57	62	65	63	724	60			3
4	70	62	67	62	62	60	52	61	59	59	67	63	744	62			4
5	61	62	58	57	59	60	59	51	50	54	58	56	685	57			5
6	52	57	62	59	63	60	58	64	64	61	65	61	726	60			6
7	60	59	57	58	62	55	59	69	62	59	50	54	704	59			7
8	63	60	43	53	56	52	59	58	52	50	50	56	652	54			8
9	56	52	62	59	51	49	46	52	55	57	51	53	643	54			9
10	61	51	64	63	52	57	57	57	55	60	65	70	712	59			10
11	68	57	66	58	57	65	62	58	64	65	61	61	744	62			11
12	61	70	66	58	58	50	56	52	57	56	57	63	704	59			12
13	61	72	55	56	57	53	52	56	52	60	58	60	692	58			13
14	52	57	54	45	53	53	50	53	50	46	58	60	631	53			14
15	45	63	51	55	53	55	53	50	47	52	49	49	622	52			15
16	57	47	48	54	47	52	52	44	55	47	52	51	606	50			16
17	54	58	56	57	59	64	50	57	49	47	50	53	654	54			17
18	50	54	51	54	51	55	57	45	54	54	49	58	632	53			18
19	51	58	52	47	46	52	48	50	42	48	52	40	586	49			19
20	55	53	57	48	51	44	50	45	47	53	54	56	613	51			20
21	57	66	57	56	57	50	48	51	55	50	48	48	643	54			21
22	54	47	54	54	46	50	52	52	54	57	58	58	636	53			22
23	55	65	60	55	53	55	50	54	47	58	54	50	656	55			23
24	47	50	59	53	55	53	57	58	49	51	53	48	633	53			24
25	56	51	57	54	54	50	62	43	54	47	54	59	641	53			25
26	58	70	64	58	62	54	54	46	56	52	56	62	692	58			26
27	62	63	53	56	53	53	50	54	66	60	49	61	680	57			27
28	59	59	51	57	48	47	51	51	51	59	63	60	656	55			28
29	56	58	66	58	56	60	59	50	61	62	58	56	700	58			29
30	55	54	54	52	53	55	59	51	57	67	58	58	673	56			30
31	61	66	55	54	59	62	57	59	58	67	64	72	734	61			31
Sum	1791	1823	1790	1740	1708	1701	1697	1663	1699	1745	1748	1784	20884	1741	56.2	(31 days)	
Mean	57.8	58.8	57.7	56.1	55.1	54.9	54.7	53.6	54.8	56.3	56.4	57.5	673.7				
													56.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 352

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	64	69	54	60	69	63	54	51	60	60	55	49	708	59		1
2	58	58	58	57	58	48	61	50	53	60	54	52	667	56		2
3	56	57	57	59	55	61	58	58	55	57	52	60	685	57		3
4	59	63	53	69	47	58	45	48	50	53	48	53	646	54		4
5	55	54	55	59	47	48	53	53	48	43	57	48	620	52		5
6	51	59	57	48	58	56	46	59	63	61	51	65	674	56		6
7	55	60	55	57	48	47	56	55	54	59	58	57	661	55		7
8	59	62	57	58	62	54	57	60	59	49	65	69	711	59		8
9	61	62	61	55	59	51	55	60	61	63	62	66	716	60		9
10	59	61	69	57	60	51	68	61	48	64	55	56	709	59		10
11	71	61	62	64	61	62	66	49	64	67	65	66	758	63		11
12	59	61	64	64	66	58	62	49	56	61	57	61	718	60		12
13	64	62	65	52	56	63	51	52	51	47	57	57	677	56		13
14	63	58	57	55	56	57	56	50	58	62	56	61	689	57		14
15	57	57	62	55	51	56	51	51	60	52	66	70	688	57		15
16	62	53	61	53	62	63	62	58	49	51	59	60	693	58		16
17	72	59	62	58	59	61	64	64	63	62	60	65	749	62		17
18	69	61	68	64	61	64	64	68	64	60	61	62	766	64		18
19	53	58	63	67	57	60	66	60	65	50	58	56	713	59		19
20	61	70	67	59	55	59	58	65	54	67	59	67	741	62		20
21	68	57	58	55	56	49	59	53	57	59	66	68	705	59		21
22	71	63	63	67	64	63	61	60	62	64	60	51	749	62		22
23	65	69	66	56	70	70	63	58	61	58	61	65	762	64		23
24	66	66	62	63	66	64	62	60	58	64	62	59	752	63		24
25	63	72	62	60	66	55	58	53	63	57	56	62	727	61		25
26	61	65	66	69	62	56	60	59	73	77	59	61	768	64		26
27	65	64	69	62	69	59	63	68	54	72	66	63	774	64		27
28	67	70	62	65	56	52	62	53	54	55	57	48	701	58		28
29	63	60	54	58	58	59	53	52	52	54	53	61	677	56		29
30	56	59	63	48	55	47	53	62	57	48	53	53	654	54		30
31																31
Sum	1853	1850	1832	1773	1769	1714	1747	1699	1726	1756	1748	1791	21258	1770	59.0 (30 days)	
Mean	61.8	61.7	61.1	59.1	59.0	57.1	58.1	56.6	57.5	58.5	58.3	59.7	708.5 59.0			

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 353

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean		Day
1	60	50	56	59	67	60	52	53	59	57	61	62	696	58		1
2	59	59	60	62	59	54	61	60	55	58	59	62	708	59		2
3	60	61	64	53	57	62	57	56	51	59	57	58	695	58		3
4	57	60	56	57	55	64	62	64	63	58	68	60	724	60		4
5	56	58	68	60	66	62	69	59	65	60	61	61	745	62		5
6	55	63	65	62	57	69	67	61	62	69	62	66	758	63		6
7	72	75	62	69	70	67	74	74	78	68	70	65	844	70		7
8	70	69	70	59	60	61	70	56	62	54	64	65	760	63		8
9	67	64	65	62	60	55	60	65	62	66	64	60	750	62		9
10	68	67	68	58	58	66	62	64	57	67	69	66	770	64		10
11	65	64	68	60	57	62	66	66	60	64	59	60	751	63		11
12	64	71	60	72	56	65	61	62	58	54	62	65	750	62		12
13	63	65	67	51	59	57	56	69	54	60	58	57	716	60		13
14	55	57	57	71	70	62	64	63	60	64	61	69	753	63		14
15	70	70	61	68	57	59	63	67					(515)	(64)	8	15
16																16
17																17
18																18
19		62	63	57	59	69	66	61	64	70	70	58	(699)	(64)	11	19
20	62	71	68	68	64	73	63	72	64	70	77	60	812	68		20
21	72	75	69	66	69	74	62	71	64	66	69	68	825	69		21
22	68	68	60	65	67	60	62	61	70	62	59	67	769	64		22
23	61	57	63	58	62	59	54	57	57	55	60	57	700	58		23
24	57	65	53	64	67	59	65	56	60	59	56	62	723	60		24
25	64	59	61	67	61	53	57	66	60	58	62	74	742	62		25
26	72	67	69	66	71	71	63	66	66	70	72	70	823	69		26
27	71	73	70	70	64	79	74	71	75	77	82	82	888	74		27
28	79	71	75	72	67	69	64	67	75	75	78	76	868	72		28
29	76	71	73	75	71	71	78	80	75	77	78	81	906	76		29
30	74	84	79	84	86	82	84	74	86	86	76	73	968	81		30
31	75	82	80	84	78	73	77	78	74	78	82	91	952	79		31
Sum	1702	1726	1706	1694	1678	1689	1684	1691	1672	1691	1726	1737	20396	1627	.53 (26 days)	
Mean	65.5	66.4	65.6	65.2	64.5	65.0	64.8	65.0	64.3	65.0	66.4	66.8	784.5 65.4	1827	65.2 (28 days)	

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 354

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	81	87	76	81	82	78	80	82	72	78	75	82	954	80			1
2	84	85	82	74	76	70	74	80	83	85	84	86	968	81			2
3	77	83	92	84	87	89	83	73	75	76	78	76	973	81			3
4	72	77	72	75	75	66	75	70	76	76	74	80	888	74			4
5	74	81			79	73	73	74	83	76	89	81	(788)	(79)	10		5
6	78	84	74	78	78	86	71	78	79	83	87	88	964	80			6
7	73	73	82	73	67	75	69	83	67	77	74	72	885	74			7
8	72	70	77	70	70	78	70	71	77	64	61	65	845	70			8
9	61	68	66	77	70	67	74	81	70	70	77	74	855	71			9
10	71	86	73	75	75	78	71	73	83	74	73	72	904	75			10
11	75	78	73	69	66	70	73	67	73	71	72	75	867	72			11
12	75	72	74	75	74	66	72	73	72	82	75	73	835	74			12
13	69	78	74	68	76	65	72	67	74	76	77	71	867	72			13
14	76	69	74	76	74	75	73	73	65	66	65	75	861	72			14
15	77	75	73	79	71	69							(444)	(74)	6		15
16																	16
17																	17
18																	18
19																	19
20																	20
21																	21
22																	22
23					69	83	77	79	81	71	74	81	(615)	(77)	8		23
24	82	83	84	80	81	87	89	87	89	90	83	77	1012	84			24
25	81	81	90	81	83	88	90	83	84	78	81	82	1002	84			25
26	82	80	93	83	84	73	79	78	83	79	80	83	977	81			26
27	81	77	82	75	76	69	78	74	75	79	73	77	918	76			27
28	75	75	66	72	74	79	69	71	76	82	66	71	876	73			28
29	72	70	72	77	80	72	83	76	78	73	73	74	903	75			29
30	77	74	82	72	78	74	74		75	79	74	67	(836)	(76)	11		30
31																	31
Sum	1437	1476	1481	1443	1448	1431	1450	1445	1451	1459	1428	1455	17404	1449	76. 3	(19 days)	
Mean	75.6	77.7	77.9	75.9	76.2	75.3	76.3	76.1	76.4	76.8	75.2	76.6	9160	1755	76. 3	(23 days)	
													76.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 355

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1954

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table--75° West Meridian Time

Day	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Sum	Mean			Day
1	73	75	72	73	76	83	78	78	76	79	81	83	927	78			1
2	82	85	85	90	87	97	102	103	105	95	93	96	1120	93			2
3	99	94	100	94	96	97	91	94	95	93	97	93	1143	95			3
4	90	86	97	93	87	83	85	94	87	78	71	74	1025	85			4
5	81	81	82	75	77	81	81	83	83	76	78	87	965	80			5
6	75	75	79	83	76	79	83	87	83	85	87	83	975	81			6
7	83	88	92	[	]	85	90	99	88	92	90	83	(890)	(89)	10		7
8	85	87	78	85	73	83	87	74	69	80	80	77	958	80			8
9	69	75	78	81	76	84	80	84	84	80	76	80	947	79			9
10	93	82	87	85	98	93	89	87	87	81	78	83	1043	87			10
11	73	73	73	90	79	91	88	92	80	66	65	72	942	78			11
12	66	79	76	79	76	80	79	70	76	74	77	85	917	76			12
13	70	74	79	79	79	79	73	80	83	78	85	71	930	78			13
14	70	73	75	74	83	82	76	87	83	86	76	73	938	78			14
15	74	88	87	78	87	89	90	94	86	87	91	83	1034	86			15
16	89	82	80	83	86	78	82	73	81	83	78	73	968	81			16
17	75	73	70	81	72	81	75	79	63	68	74	80	891	74			17
18	75	72	80	77	74	80	71	76	78	87	82	83	935	78			18
19	87	82	93	87	92	84	86	98	87	87	83	91	1057	88			19
20	87	87	95	90	90	88	97	95	95	94	91	94	1103	92			20
21	89	92	86	91	79	85	85	93	86	92	84	83	1045	87			21
22	84	81	86	84	75	91	74	82	84	83	78	87	989	82			22
23	81	81	74	83	77	76	72	69	69	78	75	72	907	76			23
24	68	85	90	87	83	83	81	79	81	82	74	81	974	81			24
25	76	79	76	77	77	88	80	78	60	82	73	74	920	77			25
26	62	71	68	78	76	80	78	74	74	74	76	75	886	74			26
27	79	72	66	73	69	69	73	65	59	63	66	71	825	69			27
28	71	69	75	75	75	72	66	73	68	74	67	73	858	72			28
29	74	72	75	65	67	72	71	71	70	66	82	74	859	72			29
30	66	64	72	71	77	80	72	79	81	74	75	72	883	74			30
31	71	73	74	79	72	75	71	66	70	75	68	65	859	72			31
Sum	2334	2362	2408	2440	2391	2483	2416	2457	2383	2400	2361	2388	28823	2403	80.1	(30 days)	
Mean	77.8	78.7	80.3	81.3	79.7	82.8	80.5	81.9	79.4	80.0	78.7	79.6	9607	2492	80.4	(31 days)	
													80.1				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 356

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JANUARY 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	74	65	75	70	74	65	68	73	73	68	75	74		854	71			1
2	62	70	64	70	66	78	63	76	69	70	72	66		826	69			2
3	77	67	73	68	71	72	82	73	78	69	68	71		869	72			3
4	72	74	67	57	71	69	73	67	72	68	69	75		834	70			4
5	70	71	74	70	72	72	67	70	68	65	73	71		843	70			5
6	66	70	66	64	62	65	68	63	67	61	67	79		798	66			6
7	76	70	73	85	73	74	73	68	74	73	69	77		885	74			7
8	73	74	66	78	71	66	72	77	72	74	84	82		889	74			8
9	81	65	72	74	70	86	81	72	85	81	77	64		908	76			9
10	76	70	70	66	69	73	73	74	74	75	75	67		862	72			10
11	71	66	80	69	71	81	88	82	75	66	77	83		909	76			11
12	74	76	83	76	75	71	76	81	85	86	83	84		950	79			12
13	81	77	82	78	88	93	89	90	94	90	90	91		1043	87			13
14	89	91	89	92	85	87	75	82	78	78	74	69		989	82			14
15	82	80	72	85	74	74	59	74	76	74	68	71		889	74			15
16	76	81	76	72	70	78	75	78	83	80	69	72		910	76			16
17	75	79	80	82	77	76	80	80	80	72	69	69		919	77			17
18	59	68	69	71	70	82	70	82	82	73	79	73		878	73			18
19	63	65	67	70	78	76	77	78	88	70	75	78		885	74			19
20	68	77	68	75	75	78	68	78	81	85	78	79		910	76			20
21	72	81	69	73	67	79	81	79	80	78	70	70		899	75			21
22	77	77	72	79	78	80	74	81	90	81	75	82		946	79			22
23	79	77	86	85	78	84	76	84	76	78	78	75		956	80			23
24	83	71	85	79	73	82	80	75	85	71	75	76		935	78			24
25	81	74	82	81	88	92	82	86	80	82	82	92		1002	84			25
26	91	82	91	88	84	84	86	80	83	77	75	84		1005	84			26
27	78	87	75	85	80	79	84	83	85	88	92	86		1002	84			27
28	83	94	88	90	97	98	86	94	90	85	87	93		1085	90			28
29	84	90	89	87	89	96	93	94	95	92	103	93		1105	92			29
30	92	92	95	80	92	94	87	102	102	95	87	86		1104	92			30
31	102	93	82	84	89	92	88	92	88	85	80	89		1064	89			31
Sum	2387	2374	2380	2383	2377	2476	2394	2468	2508	2390	2395	2421		28953	2415	77.9	(31 days)	
Mean	77.0	76.6	76.8	76.9	76.7	79.9	77.2	79.6	80.9	77.1	77.3	78.1		9341				
														77.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 357

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

FEBRUARY 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	77	84	77	80	86	76	81	79	78	70	73	76		937	78			1
2	80	72	81	76	80	84	77	90	86	84	80	83		973	81			2
3	83	80	83	85	88	89	88	91	88	91	96			(959)	(87)	11		3
4	84							84	87	81	81	80		(497)	(83)	6		4
5	67	79	80	68	82	85	81	81	78	82	79	79		941	78			5
6	73	76	68	71	75	73	78	84	67	80	78	71		894	74			6
7	71	66	70	69	68	69	79	75	86	88	89	84		914	76			7
8	81	75	86	79	85	83	90	86	90	81	90	80		1006	84			8
9	87	88	85	86	84	87	85	81	90	79	70	81		1003	84			9
10	74	89	73	68	77	77	72	72	82	81	83	74		922	77			10
11	74	80	84	79	76	77	78	90	89	80	85	91		983	82			11
12	92	93	88	100	106	95	96	104	101	105	100	96		1176	98			12
13	108	98	106	100	94	99	98	96	94	97	95	87		1172	98			13
14	89	92	80	89	88	92	87	93	88	91	95	91		1075	90			14
15	92	95	100	90	91	97	86	90	83	98	86	95		1103	92			15
16	86	90	84	85	81	83	82	82	77	81	80	72		983	82			16
17	76	73	82	78	74	78	80	83	75	80	70	85		934	78			17
18	79	73	81	80	75	72	76	73	69	77	74	70		899	75			18
19	79	71	78	74	77	70	69	70	62	68	67	63		848	71			19
20	66	68	75	76	73	74	64	72	68	66	67	64		833	69			20
21	65	67	66	72	69	66	70	69	70	68	68	66		816	68			21
22	69	69	68	65	74	68	68	71	63	73	66	66		820	68			22
23	70	74	62	68	69	71	67	74	75	63	70	74		837	70			23
24	67	68	75	76	78	77	79	80	72	82	76	78		908	76			24
25	78	70	74	80	76	66	71	72	82	78	78	69		894	74			25
26	80	72	69	75	77	69	75	74	81	72	72	69		885	74			26
27	76	69	65	73	81	69	75	74	69	76	80	78		885	74			27
28	72	67	66	66	68	70	74	66	75	78	72	71		845	70			28
29																		29
30																		30
31																		31
Sum	2028	2018	2023	2023	2064	2027	2038	2081	2050	2078	2043	2013		24486	2041	78.5	(26 days)	
Mean	78.0	77.6	77.8	77.8	79.4	78.0	78.4	80.0	78.8	79.9	78.6	77.4		9417	2211	79.0	(28 days)	
														78.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 358

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MARCH 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	67	77	69	64	74	73	67	77	77	73	81	79	878	73			1
2	70	67	77	68	81	71	73	74	86	86	79	80	912	76			2
3	70	82	71	76	87	68	75	72	76	83	74	67	901	75			3
4	73	74	77	73	79	81	84	72	75	75	81	75	919	77			4
5	63	73	70	79	69	73	73	76	75	75	67	77	870	72			5
6	71	75	70	71	66	69	76	75	89	76	84	72	894	74			6
7	86	81	83	77	90	90	94	100	97	90	95	96	1079	90			7
8	92	89	94	92	94	93	92	95	93	93	87	84	1098	92			8
9	90	85	75	84	78	79	76	74	77	72	72	77	939	78			9
10	72	68	66	64	70	74	77	76	75	81	62	71	856	71			10
11	67	68	75	68	70	66	73	75	78	78	74	69	861	72			11
12	71	75	76	74	77	75	75	68	69	75	62	75	872	73			12
13	78	77	73	75	75	70	75	69	74	77	76	80	899	75			13
14	78	75	72	83	76	68	73	79	74	91	77	75	921	77			14
15	71	75	83	80	79	78	72	80	80	81	74	71	924	77			15
16	70	71	78	69	73	72	72	73	71	77	77	64	867	72			16
17	70	75	76	83	80	88	77	85	76	81	76	75	942	78			17
18	68	75	77	73	75	79	79	78	78	76	76	73	907	76			18
19	73	82	67	70	70	81	76	71	65	72	79	67	873	73			19
20	75	77	81	76	76	64	71	73	75	61	68	71	868	72			20
21	59	69	65	76	66	73	64	65	72	64	59	59	791	66			21
22	72	71	70	72	65	64	72	60	69	60	61	68	804	67			22
23	79	74	81	72	83	72	81	70	74	80	83	66	915	76			23
24	70	67	75	73	68	73	75	74	88	78	77	78	896	74			24
25	72	75	74	79	80	72	79	76	77	75	79	76	914	76			25
26	76	78	75	70	73	80	76	77	80	80	80	83	928	77			26
27	74	82	80	85	89	93	81	90	100	86	88	95	1043	87			27
28	91	88	79	82	75	78	80	82	82	90	80	85	992	83			28
29	86	76	92	84	84	82	88	89	82	91	86	83	1023	85			29
30	76	91	86	81	71	78	82	79	70	83	83	70	950	79			30
31	71	78	73	82	82	78	82	78	79	86	75	74	938	78			31
Sum	2301	2370	2360	2355	2375	2355	2390	2382	2433	2446	2372	2335	28474	2371	76.5	(31 days)	
Mean	74.2	76.5	76.1	76.0	76.6	76.0	77.1	76.8	78.5	78.9	76.5	75.3	918.5				
													76.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 359

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

APRIL 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	78	73	80	76	78	77	87	83	75	73	75	77	932	78			1
2	75	71	71	77	76	81	72	70	77	78	68	79	895	75			2
3	77	77	84	76	85	79	84	78	80	78	77	72	947	79			3
4	76	75	86	78	73	77	79	75	71	76	67	70	903	75			4
5	77	70	67	61	70	67	76	75	68	74	76	67	848	71			5
6	64	71	73	66	67	71	69	74	75	64	68	66	828	69			6
7	71	68	74	73	68	79	72	79	82	88	80	83	917	76			7
8	82	74	74	81	80	76	85	82	81	80	76	78	949	79			8
9	75	70	77	67	65	84	63	67	72	69	74	68	851	71			9
10	66	70	64	66	72	69	62	67	65	61	66	67	795	66			10
11	65	74	65	73	69	71	73	68	78	69	75	69	849	71			11
12	67	75	70	66	73	69	77	65	70	69	65	66	832	69			12
13	67	72	62	72	66	61	67	63	63	60	56	60	769	64			13
14	69	64	50	60	61	63	62	62	66	65	60	62	744	62			14
15	58	57	67	72	69	63	69	60	74	58	69	70	786	66			15
16	61	71	66	66	62	71	62	67	71	66	74	71	808	67			16
17	73	71	67	69	67	71	75	77	68	71	78	68	855	71			17
18	69	68	63	74	70	73	70	74	71	68	66	67	833	69			18
19	70	68	74	60	73	73	66	72	66	69	62	69	822	68			19
20	66	69	66	66	66	68	63	69	57	73	73	73	809	67			20
21	69	63	69	67	62	70	71	62	60	58	65	70	786	65			21
22	70	75	74	82	73	66	72	69	65	64	72	76	858	72			22
23	78	76	75	76	81	80	70	78	71	77	73	75	910	76			23
24	75	75	71	73	67	73	75	64	67	68	71	72	851	71			24
25	66	74	69	72	72	69	69	72	70	73	76	68	850	71			25
26	66	71	71	67	69	83	66	74	76	72	72	75	862	72			26
27	79	74	78	71	67	72	72	83	74	77	75	77	899	75			27
28	76	78	70	72	76	76	68	73	79	73	64	66	871	73			28
29	66	68	72	68	63	67	71	67	70	64	74	64	814	68			29
30	65	71	67	71	70	73	66	71	64	65	68	67	818	68			30
31																	31
Sum	2116	2133	2116	2118	2110	2172	2133	2140	2126	2100	2115	2112	25491	2124	70.8	(30 days)	
Mean	70.5	71.1	70.5	70.6	70.3	72.4	71.1	71.3	70.9	70.0	70.5	70.4	849.6				
													70.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 360

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

MAY 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	58	69	59	59	66	71	69	66	70	68	73	65	793	66			1
2	66	62	65	79	62	68	66	69	69	56			(662)	(66)	10		2
3							66	62	65	64	66	70	(393)	(66)	6		3
4	64	63	58	63	54	65	71	71	61	60	62	72	764	64			4
5	67	59	58	68	65	75	66	71	67	62	60	64	782	65			5
6	70	53	63	64	77	69	71	76	72	76	73	69	833	69			6
7	65	65	58	72	65	69	70	64	68	68	61	68	773	66			7
8	64	62	67	54	61	63	63	67	72	68	67	68	776	65			8
9	73	71	69	67	68	69	67	70	64	69	67	71	825	69			9
10	59	63	61	72	64	62	59	56	61	57	65	56	735	61			10
11	63	54	57	60	63	67	62	55	65	63	62	65	736	61			11
12	60	54	69	65	72	63	75	60	68	68	65	74	799	67			12
13	72	70	64	59	66	62	66	63	68	64	68	71	793	66			13
14	71	62	58	56	65	64	65	64	60	62	68	68	763	64			14
15	60	53	63	69	59	65	63	62	78	72	67	62	773	64			15
16	56	57	65	66	60	67	77	56	66	69	60	63	762	64			16
17	65	65	62	67	64	70	67	70	63	75	73	64	805	67			17
18	66	67	76	69	73	65	73	63	68	74	64	72	830	69			18
19	70	64	64	67	71	66	70	66	61			63	(662)	(66)	10		19
20	73	66	66	67	66	65	69	80	65		73	67	(757)	(69)	11		20
21	66	76	68	61	66	67	53	61	65	54	61	66	764	64			21
22	57	65	69	65	65	58	58	54	61	64	58	57	731	61			22
23	64	62	62	62	61	63	60	54	58	64	59	64	733	61			23
24	69	77	73	57	55	56	64	69	56	55	57	66	754	63			24
25	55	66	61	64	66	62	69	69	56	67	68	62	765	64			25
26	54	58	63	65	67	72	69	71	62	55	63	58	757	63			26
27	58	63	56	59	49	67	66	62	58	59	57	57	711	59			27
28	55	60	61	58	73	58	55	62	59	63	62	56	722	60			28
29	64	60	63	59	59	56	60	59	63	61	61	64	729	61			29
30	65	60	57	70	52	66	56	65	58	65	68	64	746	62			30
31	68	60	61	69	65	69	66	60	60	66	66	66	776	65			31
Sum	1708	1694	1701	1719	1720	1760	1760	1726	1727	1748	1735	1752	20750	1730	64.1	(27 days)	
Mean	63.3	62.7	63.0	63.7	63.7	65.2	65.2	63.9	64.0	64.7	64.3	64.9	7686	1997	64.4	(31 days)	
													64.0				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 361

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JUNE 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Sum	Mean			Day
1	72	68	65	72	68	73	63	65	67	58	55	65	791	66			1
2	56	65	67	70	65	69	68	62	67	67	59	60	775	65			2
3	61	57	63	63	58	64	59	61	69	65	60	63	743	62			3
4	61	63	58	61	60	56	58	65	62	59	55	56	714	60			4
5	59	67	57	57	55	53	58	60	65	67	61	64	723	60			5
6	56	54	51	62	56	61	61	64	60	57	62	58	702	58			6
7	56	55	53	53	66	72	54	51	55	55	55	58	683	57			7
8	52	50	59	67	57	61	56	67	59	59	58	66	711	59			8
9	63	54	61	63	63	59	61	64	64	63	60	60	735	61			9
10	56	51	53	49	55	53	57	60	61	56	52	58	661	55			10
11	50	59	56	49	50	55	68	55	49	57	62	59	669	56			11
12	61	58	45	50	62	55	68	60	57	60	55	59	690	58			12
13	61	53	57	52	54	54	52	64	63	64	61	54	689	57			13
14	55	50	55	63	54	59	58	65	59	60	67	60	705	59			14
15	62	60	61	60	63	60	58	62	66	58	61	64	735	61			15
16	52	55	56	56	55	62	63	57	58	58	61	49	682	57			16
17	48	54	62	56	65	59	53	53	61	58	62	60	691	58			17
18	49	55	54	57	57	57	55	58	61	65	62	56	686	57			18
19	67	53	57	49	66	52	57	61	64	61	60	64	711	59			19
20	60	60	56	60	57	65	63	65	62	61	58	62	729	61			20
21	59	56	52	68	68	66	51	66	68	60	50	62	726	60			21
22	60	67	70	62	58	67	57	63	63	59	55	65	746	62			22
23	54	53	73	65	69	59	54	60	61	58	50	49	705	59			23
24	58	63	64	60	64	56	53	57	61	66	60	58	720	60			24
25	61	60	63	64	62	60	60	58	61	60	67	60	736	61			25
26	58	61	57	60	60	50	61	58	64	59	55	61	704	59			26
27	64	62	59	61	67	67	64	61	63	71	62	57	758	63			27
28	60	63	52	70	57	64	61	61	60	62	55	54	719	60			28
29	51	52	54	64	55	54	62	54	53	55	56	60	670	56			29
30	54	56	51	54	62	57	55	56	54	56	49	53	657	55			30
31																	31
Sum	1736	1734	1741	1797	1808	1799	1768	1813	1837	1814	1745	1774	21366	1781	59.4	(30 days)	
Mean	57.9	57.8	58.0	59.9	60.3	60.0	58.9	60.4	61.2	60.5	58.2	59.1	712.2				
													59.4				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 362

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

JULY 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	53	55	51	57	52	59	51	46	49	53	58	54	638	53			1
2	46	54	51	50	47	51	44	56	48	50	55	39	591	49			2
3	52	47	50	58	56	55	49	53	51	55	49	52	627	52			3
4	54	56	51	49	55	52	50	62	59	53	62	56	659	55			4
5	59	56	59	58	58	58	48	52	59	61	54	53	675	56			5
6	55	56	54	55	49	51	55	54	57	52	52	55	645	54			6
7	58	61	59	61	54	51	53	53	52	55	56	51	664	55			7
8	50	49	53	55	47	54	58	46	56	64	53	55	640	53			8
9	51	48	48	52	59	49	62	55	53	53	54	54	638	53			9
10	52	48	59	53	55	55	61	55	54	60	51	64	667	56			10
11	59	56	51	55	62	55	60	61	51	54	52	54	670	56			11
12	55	53	44	55	51	52	53	60	54	49	56	47	629	52			12
13	54	55	59	61	57	53	58	55	57	56	59	53	677	56			13
14	55	57	49	53	58	63	60	64	44	47	56	45	651	54			14
15	45	49	48	49	53	53	58	53	54	59	44	45	610	51			15
16	50	45	48	47	50	55	61	47	55	59	49	46	612	51			16
17	39	47	49	48	62	52	51	54	51	52	51	47	603	50			17
18	53	45	52	54	48	50	44	60	58	57	50	53	624	52			18
19	57	63	47	55	55	55	66	49	57	59	61	57	681	57			19
20	62	48	63	50	64	57	44	57	60	56	53	64	678	56			20
21	65	60	56	51	58	58	54	60	53	55	57	54	681	57			21
22	60	56	57	55	62	53	61	62	63	74	57	57	717	60			22
23	53	54	64	59	64	54	60	54	58	56	52	56	684	57			23
24	58	63	63	56	61	56	54	60	66	61	59	57	714	60			24
25	62	54	56	54	48	69	58	57	57	51	55	48	669	56			25
26	54	54	47	45	53	56	49	61	49	40	53	42	603	50			26
27	53	48	48	54	39	43	49	52	46	43	48	53	576	48			27
28	49	46	53	45	49	53	36	51	58	53	46	48	587	49			28
29	48	50	56	51	54	53	55	47	48	50	49	48	609	51			29
30	46	48	55	46	51	42	55	45	47	49	50	45	579	48			30
31	50	39	46	51			48	44	45	50	52	40	(465)	(46)	10		31
Sum	1607	1581	1600	1591	1631	1617	1617	1641	1624	1636	1601	1552	19298	1607	53.6	(30 days)	
Mean	53.6	52.7	53.3	53.0	54.4	53.9	53.9	54.7	54.1	54.5	53.4	51.7	6432	1653	53.3	(31 days)	
													53.6				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 363

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

AUGUST 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	41	37	43	40	42	39	46	48	52	52	45	51	536	45			1
2	52	46	47	47	46	44	52	50	51	55	52	50	592	49			2
3	44	50	54	54	50	55	49	60	56	48	55	51	626	52			3
4	49	48	45	49	47	56	56	51	47	57	50		(555)	(50)	11		4
5																	5
6																	6
7																	7
8																	8
9																	9
10								42	43	50	50	53	(238)	(48)	5		10
11	63	55	49	51	55	58	50	46	53	53	54	56	643	54			11
12	54	60	43	57	48	53	53	54	48	59	49		(578)	(53)	11		12
13								50	51	45	44	44	(234)	(47)	5		13
14	42	55	50	47	47	46	47	45	42	41	48	39	549	46			14
15	41	39	47	51	49	50	48	52	42	45	52	62	578	48			15
16	55	54	55	53	64	55	53	62	55	51	52	53	662	55			16
17	50	49	56	52	50	59	55	56	51	55	51	59	643	54			17
18	54	50	55	52	52	52	47	57	60	57	51	54	641	53			18
19	57	55	50	59	57	52	57	56	41	53	53	66	656	55			19
20	61	52	58	62	56	55	60	61	57	47	54	60	683	57			20
21	70	55	57	57	58	63	53	44	56	56	54	59	682	57			21
22	49	54	56	57	61	61	52	54	44	51	54	60	653	54			22
23	56	58	57	62	61	52	61	56	60	56	54	58	691	58			23
24	60	61	62	59	51	60	62	53	53	57	61	57	696	58			24
25	59	56	60	58	52	57	56	50	52	59	53	52	664	55			25
26	61	54	53	62	63	53	58	60	54	56	56	41	671	56			26
27	51	59	56	51	54	47	53	58	53	53	50	53	638	53			27
28	52	58	57	50	58	56	61	58	59	61	52	49	671	56			28
29	54	54	48	51	51	43	61	52	54	65	53	59	645	54			29
30	53	51	53	47	49	59	43	57	51	55	50	57	625	52			30
31	51	49	51	50	53	52	51	59	58	51	59	47	631	53			31
Sum	1176	1151	1174	1172	1179	1168	1175	1194	1154	1177	1163	1193	14076	1174	53.4	(22 days)	
Mean	53.5	52.3	53.4	53.3	53.6	53.1	53.4	54.3	52.5	53.5	52.9	54.2	6400	1372	52.8	(26 days)	
													53.3				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 364

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

SEPTEMBER 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	52	56	45	49	53	52	51	52	60	53	53	53	629	52			1
2	45	57	49	55	55	55	62	66	55	54	60	55	668	56			2
3	45	51	53	57	52	52	57	63	53	55	50	47	635	53			3
4	50	54	55	49	57	43	55	56	56	54	57	57	643	54			4
5	55	55	57	50	51	51	53	46	58	51	58	49	634	53			5
6	58	63	55	62	63	55	60	57	43	63	55	40	674	56			6
7	54	50	60	56	63	64	63	61	63	55	50	62	701	58			7
8	61	65	56	65	70	68	52	62	64	59	56	59	737	61			8
9	57	55	48	57	55	63	56	63	53	59	61	49	676	56			9
10	57	54	55	53	57	59	50	47	52	61	46	54	645	54			10
11	54	60	60	61	60	60	59	57	58	57	54	60	700	58			11
12	53	59	62	57	60	54	61	62	54	59	58	56	695	58			12
13	53	52	61	59	57	58	58	55	54	53	58	56	674	56			13
14	66	53	59	64	62	57	51	71	53	57	61	61	715	60			14
15	58	70	58	62	59	57	59	58	66	57	68	56	728	61			15
16	51	54	54	64	58	55	56	56	59	57	62	59	685	57			16
17	66	60	65	65	55	58	67	49	60	65	53	55	718	60			17
18	61	62	58	55	57	65	65	52	53	56	58	59	701	58			18
19	57	64	59	59	63	55	60	63	60	54	55	59	708	59			19
20	59	61	60	67	60	61	62	60	57	66	50	49	712	59			20
21	59	57	56	64	62	67	62	63	59	54	52	55	710	59			21
22	55	56	60	56	61	64	57	68	62	56	50	50	695	58			22
23	68	56	49	51	58	58	52	49	51	51	52	50	645	54			23
24	60	49	54	56	53	50	52	58	55	53	43	60	643	54			24
25	56	55	46	55	58	56	69	60	58	58	66	63	700	58			25
26	53	61	62	56	58	58	60	60	62	62	56	63	711	59			26
27	59	59	54	52	51	61	46	50	59	50	56	52	649	54			27
28	56	51	50	45	52	53	52	51	55	58	51	52	626	52			28
29	56	65	53	57	60	57	57	63	55	59	62	64	708	59			29
30	60	54	52	54	56	60	57	57	61	58	55	54	678	56			30
31																	31
Sum	1694	1718	1665	1712	1736	1726	1721	1735	1708	1704	1666	1658	20443	1702	56.7	[30 days)	
Mean	56.5	57.3	55.5	57.1	57.9	57.5	57.4	57.8	56.9	56.8	55.5	55.3	6815				
													56.8				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 365

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

OCTOBER 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Sum	Mean			Day
1	53	49	55	58	52	46	61	59	55	63	53	59	663	55			1
2	60	50	63	56	54	59	59	62	61	57	54	59	694	58			2
3	56	58	57	64	62	63	60	60	56	62	52	53	703	59			3
4	59	65	52	54	52	57			57	59	56	56	(567)	(57)^{10}			4
5	56	56	49	46	53	48	62	52	56	57	46	55	636	53			5
6	58	48	53	59	55	49	51	56	53	53	51	51	637	53			6
7	50	51	51	52	45	47	52	47	52	45	53	49	594	50			7
8	47	54	60	50	59	52	61	53	60	54	61	65	676	56			8
9	52	53	53	65	66	63	56	58	55	58	59	62	700	58			9
10	58	61	58	59	47	62	55	49	61	54	53	68	685	57			10
11	52	50	57	51	55	50	50	54	63	55	51	55	643	54			11
12	58	52	51	57	62	49	52	53	50	50	56	51	641	53			12
13	50	45	56	56	57	59	60	52	66	55	58	54	668	56			13
14	54	56	53	53	61	60	68	61	60	57	59	56	698	58			14
15	54	60	52	56	62	58	69	67	58	65	68	68	737	61			15
16	67	66	78	76	75	71	77	70	70	67	69	70	856	71			16
17	76	80	74	71	72	82	76	66	77	65	67	77	883	74			17
18	70	72	68	66	64	63	72	65	63	72	73	66	814	68			18
19	72	71	66	67	70	82	70	71	70	72	65	70	846	70			19
20	73	60	70	73	65	68	67	60	66	67	63	53	785	65			20
21	59	59	63	62	69	67	65	56	65	67	62	63	757	63			21
22	57	64	64	62	71	63	77	63	62	71	61	70	785	65			22
23	67	62	62	64	63	62	66	58	63	59	62	64	752	63			23
24	63	61	62	65	60	54	59	61	66	61	74	69	755	63			24
25	61	70	73	72	78	75	68	76	77	62	67	59	838	70			25
26	65	69	68	61	72	70	65	72	73	61	74	62	812	68			26
27	65	66	61	65	62	62	69	69	68	75	69	65	796	66			27
28	61	60	61	59	59	61	58	61	62	60	67	60	729	61			28
29	62	68	69	68	60	59	61	60	64	76	56	61	764	64			29
30	62	57	72	58	79	72	66	72	71	64	69	74	816	68			30
31	76	79	77	72	76	88	67	77	76	77	71	74	910	76			31
Sum	1814	1807	1856	1843	1885	1864	1899	1840	1899	1861	1843	1862	22273	1856	61.9	(30 days)	
Mean	60.5	60.2	61.9	61.4	62.8	62.1	63.3	61.3	63.3	62.0	61.4	62.1	7423	1913	61.7	(31 days)	
													61.9				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 366

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

NOVEMBER 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	70	67	62	72	76	75	72	65	75	71	71	76		852	71			1
2	69	67	71	76	67	65	74	75	73	79	66	68		850	71			2
3	66	61	74	70	61	67	60	76	72	77	71	72		827	69			3
4	74	71	69	73	77	75	75	83	76	78	77	75		903	75			4
5	81	82	83	84	77	77	71	79	88	77	91	76		966	80			5
6	72	73	75	76	72	70	77	78	72	76	68	71		880	73			6
7	76	81	71	75	78	74	84	75	78	74	74	74		914	76			7
8	68	85	73	78	84	83	84	84	76	87	82	85		969	81			8
9	90	83	74	73	84	80	82	85	88	82	86	74		981	82			9
10	64	59	75	71	70	74	79	72	74	77	72	65		852	71			10
11	73	80	72	81	73	79	72	81	73	79	65	68		896	75			11
12	65	64	67	74	63	76	70	66	72	69	63	64		813	68			12
13	63	68	57	56	65	66	72	60	67	61	69	65		769	64			13
14	72	64	69	55	62	57	63	64	69	66	72	67		780	65			14
15	69	66	67	74	73	71	61	63	65	65	64	67		805	67			15
16	63	59	54	57	58	64	56	65	63	63	60	56		718	60			16
17	55	65	60	65	54	64	67	63	68	66	66	71		764	64			17
18	71	71	68	75	66	73	74	70	71	76	62	58		835	70			18
19	69	59	75	72	71	75	81	72	75	76	75	70		870	72			19
20	74	75	76	65	72	73	76	66	68	70	57	65		837	70			20
21	56	68	65	70	69	69	69	68	65	71	70	57		797	66			21
22	72	73	68	68	68	64	70	66	66	58	69	67		809	67			22
23	64	61	63	59	76	60	60	63	73	65	66	66		776	65			23
24	60	66	60	67	74	66	72	76	72	67	75	75		830	69			24
25	67	68	66	67	63	71	73	67	81	80	79	82		864	72			25
26	72	79	84	78	78	84	88	85	83	83	81	76		971	81			26
27	79	77	81	70	82	81	69	74	70	83	74	71		911	76			27
28	73	76	80	80	77	82	79	78	64	84	82	80		935	78			28
29	87	91	84	90	89	97	83	87	97	95	88	91		1079	90			29
30	86	86	84	94	90	89	85	82	88	78	89	84		1035	86			30
31																		31
Sum	2120	2145	2127	2165	2169	2201	2198	2188	2222	2233	2184	2136		26088	2174	72.5	(30 days)	
Mean	70.7	71.5	70.9	72.2	72.3	73.4	73.3	72.9	74.1	74.4	72.8	71.2		869.7				
														72.5				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 367

COSMIC RAY RESULTS FROM CHELTENHAM MAGNETIC OBSERVATORY

DECEMBER 1955

Bihourly Mean Values of Departures from Balance, +100, (in units of 0.1% of the total cosmic-ray ionization)
Corrected for Bursts and for Barometric Pressure to 760 mm Hg

Values Centered at Hours Indicated in First Row of Table ----Greenwich Mean Time

Day	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h		Sum	Mean			Day
1	90	80	80	79	82	81	77	76	74	71	81	69		940	78			1
2	69	67	72	81	70	76	77	72	70	76	65	68		863	72			2
3	59	60	65	74	70	70	78	76	69	66	68	70		825	69			3
4	71	68	72	63	68	64	68	74	70	71	69	65		823	69			4
5	65	69	59	71	64	77	78	74	80	82	79	75		873	73			5
6	77	68	58	55	58	64	68	70	69	75	81	71		814	68			6
7	67	68	64	67	61	57	61	69	71	73	74	78		810	68			7
8	68	71	67	78	67	63	72	76	71	74	76	72		855	71			8
9	67	68	67	73	70	67	65	69	87	82	78	75		868	72			9
10	85	90	83	81	87	64	75	77	85	82	82	78		969	81			10
11	74	72	77	82	88	80	85	77	90	89	88	85		987	82			11
12	71	79	76	73	70	81	81	77	82	86	84	87		947	79			12
13	78	86	81	79	86	83	81	80	88	78	76	91		987	82			13
14	71	78	71	74	79	67	78	68	85	86	74	72		903	75			14
15	74	74	70	76	71	75	78	82	81	77	81	76		915	76			15
16	86	82	83	97	93	89	87	91	83	78	82	86		1037	86			16
17	76	79	85	79	79	85	81	80	87	83	76	87		977	81			17
18	77	78	79	78	75	79	76	91	76	78	83	84		954	80			18
19	74	78	78	79	88	84	77	71	82	86	86	78		961	80			19
20	85	84	77	84	96	91	91	94	81	88	86	81		1038	86			20
21	83	83	79	78	86	90	84	86	84	91	88	79		1011	84			21
22	85	88	79	87	90	90	84	83	92	86	83	81		1028	86			22
23	79	76	73	73	83	75	79	77	68	78	71	75		907	76			23
24	73	76	77	69	75	71	72	65	71	70	67	61		847	71			24
25	63	62	56	66	57	69	65	61	65	65	71	74		774	64			25
26	59	67	75	69	68	73	72	73	80	84	71	80		871	73			26
27	88	80	81	71	79	85	91	85	88	85	86	85		1004	84			27
28	79	80	84	79	83	88	75	80	85	82	76	78		969	81			28
29	80	74	80	80	77	70	80	74	67	73	74	75		904	75			29
30	78	75	79	78	86	68	75	77	85	88	91	91		971	81			30
31	94	93	90	87	86	88	91	91	86	88	93	83		1070	89			31
Sum	2345	2353	2317	2360	2392	2364	2402	2396	2452	2471	2440	2410		28702	2392	77.2	(31 days)	
Mean	75.6	75.9	74.7	76.1	77.2	76.3	77.5	77.3	79.1	79.7	78.7	77.7		925.8				
														77.2				

SUMS AT BOTTOM OF TABLE APPLY ONLY TO COMPLETE DAYS; THAT IS, THOSE FOR WHICH ALL BIHOURLY VALUES ARE AVAILABLE

TABLE 368

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1937

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1				72	47	39	42	36	37	42	57	68		1
2				71	48	41	47	39	38	42	57	74		2
3				70	55	41	43	33	40	38	69	73		3
4				66	54	40	48	30	40	33	72	71		4
5				61	57	29	44	27	39	36	67	72		5
6				64	59	30	38	32	40	38	67	75		6
7				69	58	35	39	32	40	42	64	82		7
8				63	57	42	38	31	45	53	59	76		8
9				65	55	39	36	32	49	50	58	78		9
10				75	59	34	33	32	43	48	60	78		10
11				82	60	42	39	36	43	49	60	78		11
12				76	54	41	37	34	46	42	54	76		12
13				68	52	34	34	37	50	50	51	73		13
14				66	56	33	36	39	44	60	59	72		14
15				66	57	34	33	40	42	62	67	68		15
16				68	55	33	35	38	45	61	69	63		16
17				57	57	32	36	36	51	53	72	63		17
18·				51	55	35	43	38	50	47	73	58		18
19				58	58	37	39	35	48	45	70	63		19
20			62	60	58	38	33	41	50	58	72	66		20
21			67	59	50	36	33	41	50	61	78	70		21
22			71	62	45	36	36	38	49	59	72	62		22
23			69	64	53	30	38	40	44	59	68	57		23
24			65	64	54	30	35	40	45	66	62	56 a		24
25			68	53	54	34	36	37	45	60	60	54 b		25
26			75	41	47	35	38	37	48	54	62	65		26
27			71	30	50	29	41	38	52	57	58	66		27
28			78	36	43	30	41	38	51	63	57	63		28
29			76	30	45	36	45	38	51	57	63	68		29
30			76	38	42	40	43	39	46	51	62	70		30
31			71		40		41	37		58		67		31
Mean			70.8	60.2	52.7	35.5	38.7	36.2	45.4	51.4	64.0	68.5		
			144	360	372	360	372	372	360	372	360	369	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 369

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1938

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	68	68	72	57	60	49	48	40	49	38	58	68		1
2	71	62	66	60	54	49	45	42	52	43	55	66		2
3	71	60	68	70	53	51	46	39	55	47	54	65		3
4	72	63	70	70	57	53	48	30	49	51	58	64		4
5	70	63	59	69	52	53	48	34	52	51	53	61		5
6	69	55	61	60	57	48	48	38	54	52	58	71		6
7	65	53	70	46	53	46	45	43	49	56	56	70		7
8	75	53	72	44	49	40	48	44	50	51	60	68		8
9	74	45	69	50	51	43	47	48	53	46	62	71		9
10	74	49	71	58	59	41	47	44	52	53	56	68		10
11	75	52	75	52	55	42	47	40	51	51	55	60		11
12	74	53	75	55	51	43	50	44	50	65	53	57		12
13	76	47	64	46	52	48 j	49	45	50	56	60	66		13
14	72	42	58	36	44	-	43	44	41	58	65	62		14
15	73	53	62	41	45	-	41	46	48	56	63	63		15
16	59	56	56	27	46	50 g	43	49	52	56	58	63		16
17	16	55	60	34	44	51	42	47	51	54	50	58		17
18	36	51	61	41	42	52	45	48	46	52	50	61		18
19	47	56	54	45	44	53	45	50	45	52	53	58		19
20	49	64	60	45	45	50	47	49	50	54	60	62		20
21	50	62	57	47	47	50	46 i	51	52	59	57	64		21
22	27	66	54	51	53	50	45 d	52	54	54	60	63		22
23	37	65	50	53	50	50	47	46	37	52	60	59		23
24	41	76	58	50	51	50	50	47	42	50	62	65		24
25	31	81	58	51	47	52	49	48	54	59	68	74		25
26	43	79	53	52	45	49 d	52	47	45	54	72	66		26
27	66	74	62	50	43	49	49	45	41	56	77	66		27
28	69	84	63	52	50	51	47	49	34	59	76	74		28
29	58		57	57	46	56	49	50	36	60	68	72		29
30	59		57	63	50	53	48	46	36	61	66	78		30
31	64		53		48		48	47		61		81		31
Mean	59.1	60.2	62.1	51.1	49.8	49.2	46.8	44.9	47.7	53.5	60.1	65.9		
	372	336	372	360	372	315	359	372	360	372	360	372	No. of Bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 370

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1939

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	74	72	65	62	48	35	33	47	43	48	56	62		1
2	71	67	68	67	43	35	33	44	43	51	59	64		2
3	67	62	66	70 b	42	34	35	43	39	35	62	67		3
4	68	69	59	72	39	32	30	48	37 b	29	61	67		4
5	67	69	54	62	33	34	24	50	42 b	31	56	69		5
6	69	58	58	58	11	36	28	46	42	39 a	58	65		6
7	65	64	65	67	20 j	38	29	50	38	43	58	59		7
8	67	63	68	64	28 g	35	33	45	35	44	65	63		8
9	61	60	61	59	26	35	36	45	38	42 b	61	54		9
10	58 j	55	66	47	33	34	40	47	43 c		56	60		10
11		58	63	46	33	37	42	43	42		60	66		11
12	70 f	64	60	57	38	40	38	22	40		65	60		12
13	65 d	61	65	59	44	36	32	33	37	23 h	68	65		13
14	67	56	60	55	46	34	33	34	33	41	66	73		14
15	74	56	57	52	48	38	39	31	33	41	61	71		15
16	66	58	63	52	44	35	42	35	34	40	62	69		16
17	59	58	73	41	41	35	42	40	30 k	44 c	63	66		17
18	62	58	77	39	40	40	37	42		42	59	64		18
19	67	51	69	45	38	31	36	42		42	61 k	62		19
20	69	57	65	43 c	41	29	37	35		42	64 h	67		20
21	63	60	70	42	43	33	37	39		50	69	78		21
22	67	76	67	45	44	33	36	28		54	73	72		22
23	71	85	62	34	42	35	35	35		56	65	60		23
24	69	72	59	22	38	40	36	44		52	69	67		24
25	77	68	58	14	38	41	40	43		48	73	64		25
26	79	57	56 e	26	38	40	36	44		44	67	63		26
27	88	60	61	37	41	38	37	46		40	62	68		27
28	76	59	63	40	36	38	39	46		50	64	66		28
29	71		63	49	36	31	43	46		56	63	68		29
30	65		55	54	33	29	42	45		53	64	71		30
31	77		62		35		44	44		56		78		31
Mean	69.0	62.6	63.2	49.3	37.4	35.4	363	41.4	382	44.1	63.0	66.1		
	340	336	367	355	355	360	372	372	186	322	341	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 371

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	82	71	66	38	59	53	52	42	45	47	50	59		1
2	82	79	64	45	67	52	52	40	45	50	56	66		2
3	79	74	62	40	73	55	50	37	46	48	56	76		3
4	72	71	70	45	68	55	50	38	46	47	54	68		4
5	72	69	77	57	63	57	49	38	45	47	53	69		5
6	77	65	82	60	64 b	54	47	42	46	43	64	65		6
7	70	73	77	56	74	54	46	46	45	42	69	64		7
8	73	72	78	56	56	52	46	50	46	52	70	72		8
9	71	71	79	67	59	51	49	45	47	56	61	70		9
10	70	66	78	68	70	53	43	42	50	56	60	58		10
11	67	71	75	65	70	51	42 d	44	54	52	56	57		11
12	71	63	68	67	70	51	46	42	55	52	54	53		12
13	70	71	68	80	62	53	45	43	52	51	54	52		13
14	66	79	68	83	60	45	46	44	51	52	52	61		14
15	78	77	79	72	59	42	47	47 a	48	57	55	56		15
16	79	73	75	65	63	44	47 a	45	51	61	60	54		16
17	81 b	69	72	63	60	46	48 a	44	50	60	57	61		17
18		69	72	60 g	61	47	48	42	49	62	52	62		18
19	78 d	73	74	63 i	59	46	48	41	46	62 b	47	62		19
20	86	82	75	67	57	53	47	50	47	58	51	60		20
21	84	77	79	66	55	58	46	49	48	56 h	50	63		21
22	82	77	79	67	57	53	46	50	47		49	63		22
23	74	75	84	64	44	47	46	50	49	50 d	46	63		23
24	73	73	65	67	45	47 d	42	55	45	52	56	60		24
25	78	78	69	61	50	45 k	44	52	46	47 c	60	55		25
26	88	76	63	60	49	45 d	43	48	52	44	59	56		26
27	84	70	56	69	52	42	45	44	45	52	60	49		27
28	82	69	57	66	60	41	44	44	49	53	71	50		28
29	80	71	54	60	57	48	45	42	46	56	65	61		29
30	81		42	58	56	52	41	40	50	52	63	60		30
31	74		48		55		41	41		59		56		31
Mean	768	72.6	69.5	61.8	59.8	49.7	46.2	44.4	48.0	52.5	57.0	60.7		
	354	348	372	344	370	341	366	371	360	343	360	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 372

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1941

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	57		58	55	60	46	39	40	36	46	54	51		1
2	58		49	60	64	51	42	41	39	50	64	53		2
3	63		50	53	66	50	43	44	42	47	64	48		3
4	71		63	56	59	52	40 b	32	42	48	61	44		4
5	69		68	56	52	56	40	35	44	48	60	48		5
6	66 c		69	65	50	54	34	40	49	46	54	56		6
7	63		67	64	52	48	32	44	47	44	65	63		7
8	66		68	66	57	50	41	44	47	48	64	68		8
9	69		72	62	62	52	44	42	44	48	66	70		9
10	70		70	61	63	41	40	45	45	51	70	70		10
11			70	62	66	40	37	46	53	59	71	72		11
12			72	60	67	42	38	47	57	53	68	69		12
13			77	56	61	36	43	52	55	54	62	61		13
14			76	53	56	45	42	48	46	49	57	73		14
15		72	71	54	52	48	46	47	42	49	62	75		15
16		73	67	51	45	51	45	48	40	55	64	74		16
17		74	76	56	54	55	43	52	48	53	60	71		17
18		75	77	49	60	54	45	52	35	50	56	60		18
19		71	66	52	56	46	45	47	31	52	56	64		19
20		72	63	52	51	49	50	50	34	54	58	72		20
21		74	66	61	53	48	48	52	38	55	65	70		21
22		75	63	64	49	49	50	48	39	55	62	69		22
23		77	63	60	48	49	49	51	36	57	61	65		23
24		69	66	56	58	47	47	51	41	63	69	70		24
25		69	70	60	56	44	46	46	44	63	70	66		25
26		69	68	61	50	43	47	45	47	57	68	64		26
27		75	69	62	51	46	44	44	51	52	63	64		27
28		82	72	65	46	42	44	42	48	58 d	58	72		28
29			80	58	53	39	45	39	51	60 e	56	75		29
30			73	60	60	40	45	40	47	57	58	71		30
31			56		54		39	38		56		73		31
Mean	65.2	73.4	67.6	58.3	55.8	47.1	43.0	44.9	43.9	52.8	62.2	65.2		
	117	168	372	360	372	360	370	372	360	363	360	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 373

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1942

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	70	81	21	64	58	63	52	48	52	62	67	77		1
2	74	87	35	66	62	56	50	45	53	62	67	93		2
3	72	86	40	62	59	56	55	47	55	60	68	84		3
4	66	79	46	62	58	58	51	53	55	57	62	84		4
5	74	75	51	56	62	58	54	54	52	61	61	78		5
6	82	71	57	56	63	60	56	54	51	63	57	76		6
7	87	76	68	56	60	59	57	55	53	61	65	78		7
8	87 b	79	51	62	62	58	56	54	52	61	67	83		8
9	77	74	54	60	67	58	54	50	50	61	68	84		9
10	85	76	61	60	67	60	47	49	54	64	65	76		10
11	79	76	56	68	64	55	48	50	58	64	76	78		11
12	75	85	65	71	61	57	44	52	57	63	78	80		12
13	71	82	64	67	58	57	38	50	50	57	79	87		13
14	70	79	64	62	62	57	41	52	50	58	80	84		14
15	74	77	68	55	60	61	44	50	50	59	68	79		15
16	74	67	60	56	62	61	42	48	50	56 i	64	87		16
17	71	68	60	60	58	55	45	48	51		62	86		17
18	65	79	73	66	55 b	55	43	48	50		65	86		18
19	71	85	68	71	58	49	46	51	48		67	83		19
20	78	91	69	70	56	47	48 c	47	51	66 h	64	89		20
21	85	96	66	70	60	49	48	45	56	64	66	81		21
22	80	86	76	68	59	51	50	48	56	66	72	74		22
23	77	80	77	62	59	58	49	50	58	65	70	71		23
24	71	72	75	60	66	57	46	55 b	58	62	70	69		24
25	75	76	71	59	67	57	47	57	57	62	73	71		25
26	79	78	74	57	62	54	45	50	56	64	68	68		26
27	77	78	70	59	59	54	44	50	52	74	79	72		27
28	79	88	71	56	55	54	50	50	59	62	77	67		28
29	79		72 f	56	56	54	49	54	62 b	57	74	63		29
30	76		—	54	54	53	48	57	62	51	76	76		30
31	72		77 d		55		49	56		54		83		31
Mean	75.9	79.5	62.0	61.7	60.1	56.0	48.3	50.9	53.9	61.3	69.2	78.9		
	370	336	350	360	370	360	369	370	358	319	360	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 374

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	79	83	85	71	72	57	56	46	39	48 i	57	62 d	
2	77	88	82	78	66	60	55	44	40	46 d	58	59	
3	71	82	90	84	62	57	50	44	40	50	66	62	
4	82	76	86	77	75	55	49	40	36	54	71	66	
5	90	75	80	79	69	56	47	40	39	54	68	66	
6	86	74	74	85	64	55	47	45	38	50	58	67	
7	82	82	83 c	72	64	53	50	46	47	47	54	67	
8	84	81	89 d	71	61	54	44	37	45	49	56	62	
9	85	77	86	71	63	54	47	40	47	53	66	62	
10	91	70	78	68	59	54	45	36	52	57	72	69	
11	83	76	76	71	59	52	43	41	52	53	74	76	
12	86	88	76	69	59	49	45	44	51	51	70	78	
13	88	87	80	77	60	44	48	40	46	47	75	79	
14	86	96	76	84	65	52	41	42	48	49	75	79	
15	86	97	73	86	61	49	41	46	45	51	70	80	
16	74	92	71	72	52	53	42	40	49	55	73	81	
17	71	84	76	66	53	54	39	46	54	60	78	79	
18	68	80	74	65	58	58	39	48	53	63	66	74	
19	72	76 b	68	66	56	57	37 e	43	50	59	62	70	
20	79	77	66	72	58	54		45	52	57	64	78	
21	77	78	76	75	60	55	46 d	47	50	55	66	75 c	
22	71	73	80	75	64	56	50	45	51	58	69	76	
23	71	72	76	73	62	55	46	42	55	58	74	84	
24	68	72	74	70	67	52	44	42	63	59	67	82	
25	69	84	75	68	64	53 a	43	42	66	62	65	72	
26	71	86	72	69	60	49	42	44	59	62	66	66	
27	73	92	73	67	63	54	46	47	49	57	70	67	
28	72	84	82	70	66	53	56	48	48	62	70	74	
29	72		84	68	61	54	48	49	52	62	58 i	80	
30	77		72	63	61	58	47	29	52	54		77	
31	81		67		56		50	37		58		79	
Mean	78.1	81.5	77.4	72.8	61.9	53.9	46.1	42.7	48.9	54.8	66.8	72.5	
	372	334	365	360	372	359	351	372	360	359	339	365	No. of bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 375

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1944

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	79	83	87	77	62	61	65	58	55 b	61	74	92	
2	74	83	85	74	62	64	67	55	59 b	65	75	92	
3	72	85	81	76	62	64	64	49	59	65	74	86	
4	75	85	80	87	63	64	62	50	64 b	61 c	77	83	
5	69	81	83	90	65	62	57	55	64	55	81	76	
6	82	86	77	79	68	60	59	56	61 i	58	84	80	
7	83	87	78	71	72	62	57	57	65 i	63 b	76	79	
8	83	82	87	71	69	65 d	61	60	68	72	70	86	
9	84	81	91	65	68	62	58	55 b	66	76	73	86	
10	81	76	86	66	68	61	59	54	64	77	79	86	
11	77	76	78	66	68	65	59	54	61	71	80	87	
12	78	89	75	70	70	62	58	55	61	66	78	97	
13	79	86	75	80	70	60	57	58	60	62	73 e	94	
14	72	71	71	72	72	61	56	55	64	68	74 d	93	
15	71	76	73	69	72	60	55	56	63	70	72	83	
16	76	75	72	71	72	57	57	57	64	72	82	69	
17	77	72	79	74	71	56	59 f	57	64	72	86	73	
18	74	72	75	75	70	61	60 d	61	64	68	84	78	
19	75	80	76	70	71	60	58	55	64	63	85	90	
20	80	78	74	71	68	70	58	56	64	65	84	84	
21	73	80	81	65	68	65	62	57	66	66	91	81	
22	74	73	74	68	66	61	60	56	68	75	91	82	
23	76	77	72	67	66	58	61	63	70	72	95	75	
24	76	76	79	65	67	63	58	64	69	76	91 b	74	
25	69	80	78	70	66	62	56	68 e	67	75	85	74	
26	65	72	60	70 c	64	59 e	60	68 a	63 g	76	77	79	
27	68	69	59	74	61	55 a	58	61	64 c	82	80	74	
28	66	77	70	82	63	56	58	56 i	60	76	78	77	
29	76	81	71	74	60	55	61	55 g	65	77	80	80	
30	80		72	66	60	59	59	56 h	63	73	85	78	
31	83		85		62		60	57		69		73	
Mean	75.1	78.9	76.9	72.5	66.6	61.0	59.3	57.2	63.6	69.3	80.5	82.0	
	372	348	372	357	372	350	362	342	326	367	349	372	No. of bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 376

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1945

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	81	96	78	61	84	63	53	53	55	63	69	81	
2	85	94	75 b	57	80	62	55	54	60	67	62	74	
3	86	92	69	64	73	69	61	55	62	70	70	79	
4	83	80	74	61	78	70	56	57	61	71	80	82	
5	89	80	72	67	84	73	53	54	59	70	72	77	
6	86	79	71	74 e	79	69	53	55	58	69	63	75	
7	79	82	76		72	69	55	55	56	67	66	79	
8	83	87	76		72	67	58	59	59	65	66	76	
9	88	84	77	71 d	75	61	54	60	58	71	61	80	
10	89	78	77	66	76	57	54	57	60	72	66	89	
11	89	81	73	66	72	56	60	57	63	69	69	86	
12	79	81	71	68	63	58	59	53	62	65	65	90	
13	75	78 i	66	61	64	60	53	55	64	65	68	83	
14	77	86	66	67	62	55	55	56	59	71 b	76 c	80	
15	80	79	56	69	59	55	55	59	62		84	82	
16	84	75 b	56	66	65	54	55 a	64	62		70	90	
17	82	82	57	65	62	57		61	57	59 e	67	87	
18	83	84	66	74	69	61	54 d	61	52	61	73	83	
19	80	89 d	61	78	71	62	53	58	56	63	72	83	
20	82	81	65	73	67	63	54	56	58	70	76	84	
21	82	76	73	71	61	60	56	54	61	66	74	86	
22	83	73	77	71	62	63	55	52	64	65	79	85	
23	93	85	71	68	68	57	59 h	57	58	65	89	86	
24	94	85	66	61	74	59		53	58	65	86	77	
25	92	82	66	63	68	60	57 d	55	56	65	80	69	
26	94	78	65	66	70	64	53	56	59	72	78	73 f	
27	85	78	68	74	64	59	55	48	61	67	75	77	
28	85	81	57	73	64	55	56	49	62	66	78	73	
29	88		53	75	63	58	51	53	61	66	85	74	
30	91		63	74	68	51	51	60	66	71	83	82	
31	96		66		68		54	59		69		86	
Mean	85.2	82.4	68.0	68.0	69.6	60.9	55.1	56.0	59.6	67.0	73.4	80.9	
	372	321	370	327	372	360	331	372	360	341	357	366	No. of bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 377

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	84	86	50	46	52	41	38	17	36	51	46	63	
2	80	87	51	38	52	43	33	24	41	44	46	68	
3	66	81	55	46	54	47	31	23	49	40	46	71	
4	69	73	50	52	53	46	32	23	49	41	50	70	
5	67	56	52	57 c	48	52	29	25	39	42	54	64	
6	64	36	53	61	38	43	32	29	37	40	46	70	
7	63	29	53	62	35	27	28	32	38	39	46	68	
8	68	20	56	57 g	33	29	32	31	41	45	51	66	
9	66	29	60	60 f	36	32	31	29	38	47	49	64	
10	69	36	49	61 c	36	37	30	31	45	42	44	64	
11	72	45	56	60	30	34	35	35	50 d	37	43	66	
12	73	46	53	59	39	32	38	35	50	38	54	59	
13	84	47	51 b	57	42	35	37	33	49 f	43	59 h	67	
14	82	48	51	51	38	40	36	31		45		69	
15	81	41	55	45	38	41	38	27		42	53 d	72	
16	80	39	67	51	34	45		27	49 g	41	42	59 b	
17	84	50	60	50	40	41	32 d	28	38 b	42	48	62	
18	86 b	54	61	50	41	36	32	33	34 h	44	56	72	
19	82	48	65	55	42	37	30	34		51	52 c	69	
20	82	45	64	53	41 c	32	32	39	25 h	46	53	58	
21	80	49	58	53		28	36	45	25	44	54	62	
22	82	52	57 e	47	43 d	27	34	41 a	8	44	58	72	
23	79	57	54	46	41	39	27	43	8	43	61	63	
24	80	64	52	47	38	34	26	43	17	44	46	67	
25	79	67	49 g	51	38	36	74	40	23	48	45	78	
26	78	62		54	42	37	41	40	31	48	45	65	
27	81	59		58	43	42	-30	39	28	39	56	61	
28	80	57		53	50	32	-12	38	29	47	59	56	
29	77		30 f	49	51	32 c	-3	41	36	48	60	56	
30	76		35	48	44	34	5	44	46	47	58	64	
31	77		42		41		12	39		41		62	
Mean	76.5	52.3	52.8	52.6	41.8	37.0	27.9	33.5	35.5	43.6	51.0	65.4	
	370	336	316	341	353	357	356	371	289	372	333	370	No. of bihours

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 378

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	58	66	78	50	29		9	28	20		30	37 k		1
2	49	78	78	51	31		16	24	16		27	29 k		2
3	57	72 h	81	54	37		23	23	10		25	33 e		3
4	62		74	54	41		25	20	14		28	37		4
5	59	92 e	69	45	44		21	25	9		31	39		5
6	65	83	68	48	45		18	22	6		33	42		6
7	64	80	62	54	52		24	22	10	27 c	30 b	42 b		7
8	71	81	64	60	60		23	19	14	28	37	35		8
9	80	85	74	47	59		21	15 a	17	24	31	38		9
10	79	79	75	47	58		26	16	19	30	24	33		10
11	76	72	80	43	54		24	16	19	26	21	36		11
12	72	65	64	46	48		26	18	14	21	30	44		12
13	72	64	53	49	45		22	20	16	23	31	44		13
14	64	64	51	48	48		19	14	15	29	35	48 f		14
15	66	71	52	48	42		20	5	20	26	31 c	45 e		15
16	58	74	48	51	36		19	-5	22	27		46		16
17	68	73	61	53 b	39		16	-8	22	24	42 k	52		17
18	66	70	60	32	39		-3	2	17	29 a	42	45		18
19	71	72	57	33			+3	5	20	25	41	50		19
20	69	74	62	31		18	6	4	25	24	45	52		20
21	83	83	68	43		23	10	8	22	23	48	52		21
22	86	87	65	52		19	15	0	23	29	43	51		22
23	76	85	53	54		18	17	3	12	26	45	54		23
24	63	92	53	46		12	15	10	12	33	50 k	48		24
25	59	83	69	49		4	19	15	20	30		52		25
26	66	82	79	48		8	23	15	17	31	52 e	56 g		26
27	60 b	89	73	46		9	28	17	24	31	48			27
28	58	82	77	49		12	28	18	23	30 b	42			28
29	56 b		68	35		11	28	15	16 h	27	46	49 e		29
30	53		65	36		8	25	16		34	48	46		30
31	62		59				23	18		31		48		31
Mean	66.1	77.7	65.8	46.7	44.8	12.9	19.0	13.5	17.0	27.5	37.0	44.2		
	368	311	372	358	216	132	372	371	340	288	310	296	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 379

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	45		58	50	56	44	37		24	23	46	56		1
2	50		54	54	48	46	42		22	24	42	49		2
3	49	54	49	57	53	46	40		24	31	49	47		3
4	52	48	57	50	47	45	34		24	36	45	54		4
5	52	51	62	48	44	47	29	36 e	27	40	40	55		5
6	59	52	56	43	47	46	30	37	29	34	44	57		6
7	60	56	54	41	48	46	30	27	31	35	48	57		7
8	48	60	65	42	43	49	29	29	27	39	49	60		8
9	44 a	64	58	55	22	48	29	30	25	43	45	62		9
10	54	61	63	57	14	47	25	25	28	36	47	67		10
11	56	58	60	52	19	43	18	26	21	32	50	60		11
12	46 g	50	58	45	21	33	22	30	18	37	50	58		12
13		49	63	48	18	38	22	24	19	42	47	48		13
14		54	55	42	32	42	26	25	20	42	55	47		14
15		60 a	33	44	25	42	27	30	32	33	56	46 b		15
16		54	26	49	20	42	23	33	31	34	48	41		16
17		59	37	51	23	44 d	18	37	28	32	49 h	46		17
18		56	43	50	35	38 e	24	35	32	24 c		56		18
19		55	39	48	41	40	26	37	32		36 d	62		19
20		58	40	47	40	36	31	41 g	27	31 d	41	61		20
21		62	35	48	38	36	25	32 f	31	30	42	55		21
22		62	38	57	39	36	26	29	31	34	44	54		22
23		60	44	51	42	30	29	27	30	37	46	63		23
24		54	47	45	37 i	32	32	25	30	43	49	66		24
25		51	50	47		39	32	28 b	29	42	43	65		25
26		59	51	51	46 e	32	30	28	28	40	38	67		26
27		52	51	53	40	32	32	26	25	48	41	61		27
28		50	62	60	43	32	31	25	24	48	47	56		28
29		59	64	66	44	31	33	26	24	53	50	53		29
30			62	64	38	34	38 i	26	29	48	52	57		30
31			59		37		...	27		46		58		31
Mean	51.2	55.9	51.4	50.5	36.7	39.9	29.0	29.7	26.7	37.2	46.1	56.3		
	136	323	372	360	346	351	351	304	360	353	336	370	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 380

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	58	60	70	65	43	51		50^{c}	46	48	60	64		1
2	54	64	72^{a}	61	44	48		49^{a}	47^{a}	48	58	75		2
3	53	58	68	62	48^{c}	45^{b}		29^{c}	51	54	62	76		3
4	49	55	62^{a}	62	50	43		30	42^{f}	46	65	76		4
5	42	60	64	54	47	51		35^{b}	47^{d}	45	64	85		5
6	53	59	63	58	49	48^{d}		34	50	45	61	77		6
7	56	56	74^{i}	65^{b}	55	43^{c}		35	48	43^{k}	57	80		7
8	54	55		65^{b}	53	50^{d}		40^{a}	52	49	58	85		8
9	47	54	51^{f}	61	48	47		40	56	52	56	74		9
10	46	67	57	58	49	41^{b}		40^{b}	56	51	51	82^{k}		10
11	58	65	59^{c}	49^{b}	47	41		43	50	52	53			11
12	54	52	71	38	33	43		46	48	55	51			12
13	52	47	65	21	33	39^{b}		46	46	52	55			13
14	56^{h}	50	61	31	42	43		48	48	42	54			14
15		49	65	39	41	46		46^{a}	47	36	59			15
16		55	72	54	47^{h}	39		47	46^{a}	37	61	69^{h}		16
17	53^{f}	59	62	54	46	38		49^{d}	44	45	70	67^{e}		17
18	49	50	59	56	45^{e}	38^{c}		50	42	46	74			18
19	49	51	70	60			44^{h}	46^{a}	52	45	104	74^{d}		19
20	55	48	74	58			43	45	57	47	60	74		20
21	49	53^{d}	64	62			47^{e}	44	57^{b}	44	68	61		21
22	49	52	59	60			46^{b}	43^{b}	54	41	71	52		22
23	49	54^{b}	60	54			43	46^{a}	59^{i}	50	68	67		23
24	45^{d}	58	59	59			48	48^{d}	50^{f}	48	72	63		24
25	16^{b}	66	51	53	61^{f}		42^{a}	45^{k}	47^{d}	50	82	59		25
26	36^{d}	68	44^{a}	58	60		42	41^{i}	48^{e}	53	76	55		26
27	40	64		58	65		47^{c}	45	52	50	70	56		27
28	46	70	54^{d}	56	60		43^{d}	48^{b}	55	45	68^{b}	80		28
29	55		52	54^{b}	61		47^{c}	50^{b}	60	45	58	85		29
30	59		54^{c}	49	58^{c}		51	47	56	47	69	82^{d}		30
31	54		59		48		48	53^{a}		53		77		31
Mean	49.5	57.1	61.9	54.5	49.3	44.1	454	44.0	50.4	472	64.5	71.4		
	324	330	316	352	275	196	133	325	322	364	358	268	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 381

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	70^{j}	59	69	71	54	53	44	43	42	45	56			1
2	63^{e}	59^{b}	82	72^{i}	55	52^{i}	44	46	44	43	61			2
3	59	66^{d}	77	60^{d}	55	53	50^{g}	43		44	60			3
4	58	64	72	59	54			44		56	60			4
5	56	68	68	65	55	59^{h}	43^{f}	48		55	66			5
6	52	61	69	72	54	56	48	51		50	63			6
7	64	69	65	73	61	52	49^{b}	50		44	62			7
8	69	67	66	71	68	55	51	42		54	63			8
9	61	64	72	74	58	55	56	43	43	60	60			9
10	59	66	72^{a}	68	52	56	48	45	43	57	64^{h}			10
11	63	68	64	69	59	62	49	52	49	54				11
12	62	65	59	80	58	61	55	54	51	58				12
13	57	63	65^{a}	84	62	61	47	55	54	58	78^{d}			13
14	59	59	78^{b}	82	60	58	52	58	52	54	74			14
15	60	69	64^{h}	81	65	58	53^{i}	54	51	52	68	81f		15
16	63	77	72	74	61	57		53	51	55	71	79		16
17	67	81	78^{a}	68	58	57		53	52	53	83	84		17
18	64	76	79	68	65	55		51	49	59	79	91		18
19	69	79	74	66	70^{i}	53	52^{g}	44	48	62	69	91		19
20	72	78	71	76		51	50	46	50	66	66	92		20
21	70	68	68	82^{f}		55	49	51	51	67	77	92		21
22	72	64	76	74^{d}	55^{d}	57	43	51	55	62	77	87		22
23	68	63	81	66	50	52	42	50	59	60	78	78f		23
24	66	46^{i}	74	62	51	41	36	51	60	60	72			24
25	62		79	63	56	40	40	54	49	60	79	79e		25
26	60		72	64	53	39	46	54	42	62	79	75		26
27	65		61	68	56	46	48	54	41	63	76	78h		27
28	70		63	67	53^{b}	45	51	51	40	61	76			28
29	60		66	62	51	50	50	51	40	56	78			29
30	60		71	60	53	46	47	54	46	56	75			30
31	59		71^{b}		52		44	50		57				31
Mean	63.2	66.5	70.9	70.0	57.0	52.9	47.7	49.9	48.4	56.2	70.4	83.9		
	357	273	357	337	333	331	293	372	288	372	324	119	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 382

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1			60	65	55	40	44	30	36	43	50	55		1
2			61	69	52	36	41	32	37	54	51	54		2
3			63	74	56	41 a	36	37	36	54	53	54		3
4			61	75	63	44	36	40	39	46	53	48		4
5	71 f		68	74	66	48	45	40	38 a	42	51	51		5
6	76		62	68	63	44 a	51	40	36	46	40	46		6
7	83		61	68	65	47	46	38	41	43	41	43		7
8	91 i		65	65	59	44	44	33	39	45	52	49		8
9			72	72	59	43	43	34	40	47	47	46		9
10	88 d		72	71	58	51	39	38	33	39	44	57		10
11	86		68	72	54	48	39	34	29	39	48	60		11
12	87		68	66	53	47	35	32	29	38	49	71		12
13	84	64 i	68	65	66	39	37	22	28	37	44	70		13
14	79	63	81	63	64	41	43	23	27	39	43	63		14
15	82	71	77	59	49	28	43	23	30	40	50	64		15
16	80	74	79	63	47	26	40	22	32	39	51	76		16
17	68	75	74	71	50	23	38	25	34	38	68	69		17
18	76	69	64	71	47	22	36	31	32	42	72	68 a		18
19	76	60	64	67	50	19	37	32	33	45	78	69		19
20	72	62 c	67	64	50	22	38	31	35	47	70	62		20
21	74	66 d	77	61	52	24	34	25	34	44	57	55		21
22	80	62	85	61	48	25 e	29	28	35	45	49	61		22
23	72	67	68	66	49	24 h	29	33	41	44	50	63		23
24	74	68	74	64	46	31	32	40	38	44	53	62		24
25	89	63	76	58	40	32 h	36	39	36	50	55	63		25
26	91	60	78	56	36	36 h	37	40	39	45	56	64		26
27	71	63	71	57	42	38 d	36	39	38	48	58 i	66		27
28	67	66	66	58	46	38 e	32	39	42	45	63 f	57		28
29	70		63	56	44	39	25	41	43	45	61	54		29
30	75		64	58	43	42	27	40	42	42	58	46		30
31	73		69		40		25	37		47		41		31
Mean	78.3	65.8	69.2	65.2	52.0	36.1	37.2	33.5	35.4	43.9	53.8	58.3		
	293	176	372	360	372	323	372	372	359	372	344	371	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 383

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	38	48	62	54 a	46	42	40		42 c	48 e	52 g	69		1
2	45	48	62	61 e	46	48	34		42	55		70 k		2
3	53	51	58		46	48			51	66	65 e	65 h		3
4	56	55	53	54 e	47	48		41 d	48	54	75	56		4
5	55	60	59	54	45	48	40	40	47	48	70	63 c		5
6	65	63	53	62	45	47	42	44 f	46	51	69	72		6
7	62	64	52	60	47	49	43 b		51	54	78	59		7
8	56	61	60	61	48	46	43	43 d	47	51	69	59		8
9	53	61	60	57	52	42	41 b	43	39	49	64	57		9
10	62	57	52	56	53	46	46	46	43	55	64	60		10
11	59	61	54	59	53	51	48	45	45	51	69	71		11
12	52	58	61	54	60	49	49	40	47	51	64	76		12
13	60	57	63	49	60	50	50	48	43	48	64	82		13
14	47	59	62 h	56	59	44	50	49	43	48	60	86		14
15	50	63 h		63	56 f	42	50	54	45	50	63	84		15
16	54			61		46	49	48	48	52	64	73		16
17	56			56		46	48	48	46 g	53	58	66		17
18	61			57		51	47	49		59	59	67		18
19	57			59	52 d	53	49	48	42 i	60	56	71		19
20	57			58	53	55	50	44 c	48 c	66	60	72		20
21	69	67 e	49 e	56	57	52	46	39	49	64	62	73		21
22	66	68	52	50	59	45	43	40 a	52	52	63	74 e		22
23	63	72	47	50	58	40	42	45	54	54	61			23
24	67	68	54	52	59	41	45	48	48	54	62	58 f		24
25	63	68	55	54	53	38	46 h	42	46	53	58	66		25
26	49	70	55	52	53			47	44	57	56	74		26
27	52	63	60	53	53			42	40	59	62 i	76		27
28	52	61	63	54	46		47	38	36	68	71 d	76		28
29	66	59	64	47	48	37	50	42	35 h	72	68	68		29
30	66		57	46	47	38	44 h	40		62	73	66		30
31	57		53		44			41		56		71		31
Mean	57.0	60.9	56.8	55.3	51.6	46.0	45.5	44.2	45.2	55.5	64.1	69.3		
	372	275	287	337	326	324	192	306	306	367	322	330	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 384

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	65		76	68	60	59[a]	46	48	51	55	62	82		1
2	68	74[e]	69	70	59	52	48	47	49	58	59	69		2
3	79	74	61	71	61	50	51	48	47	55	62	66		3
4	81	81	64	72	60	48	51	47	50	55	68	65		4
5	81	78	80	73	56	45	49	44	52	56	74	66		5
6	75	74	75	70	54	50	49	47	52	63	70	61		6
7	66	75	74	69[a]	56	51	49	49[c]	50	63	64	70		7
8	65	81	85	67[e]	59	51	52		50	58	61	67		8
9	62[d]	77[g]	82	63	60	51[b]	53		55	53	60	61[a]		9
10	68		74	59	55		56		56	54	64			10
11	80	71[d]	73	62	54	57[e]	55		54	55	66	65[e]		11
12	79[k]	73	67	59	53	60	52		52	55	63	65		12
13	69	79	63	69	51	60	50		58	57	61	63		13
14	62	73	62	75	55	62	49		58	57	62	62[h]		14
15	61	67	58	66[d]	56	55	46		54	56	62			15
16	61	66	61	70	54	58	46		49	56	61	87[d]		16
17	66	74	65	66	49	54	49		54	56	68	89		17
18	64	79	64	61[b]	54	53	52		53	55	63	89		18
19	68	72	70	68	60[e]	51	47	53[c]	52	59	66	80		19
20	66	66	72	79	51[d]	50[o]	51	54	53	62	66	73		20
21	66[b]	66	68	73	54[f]		54	55	52	62	68	69		21
22		71	69	66	52		52	56	55	68	64	68		22
23		74	66[e]	58	52		50	53	54	63	71	75		23
24		72		56	56	56[g]	48	52	52	65	71	79		24
25		72	76[d]	52	52	53[i]	46	52	53	69[h]	73	79		25
26		76	78	60[a]	52	51[d]	46	51	50	58[e]	81	82		26
27		80	77	69	58	51	44	51	51	60	83	78		27
28		82	81	64	60	52	47	52	50	64	84	75		28
29			79	61	55	50[c]	44	49	49	67	79	72		29
30			75	70	51	50	42	48	55	63	81	76		30
31			67		56[a]		48	48		58		85		31
Mean	69.1	74.1	71.0	66.2	55.4	53.1	49.1	50.2	52.3	59.0	67.9	73.0		
	244	296	351	347	356	278	372	228	360	359	360	330	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSINC BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 385

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 75th West Meridian Time, Cheltenham Magnetic Observatory, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	78	88	77	77	56	56[g]	56	60	59	58	80	78		1
2	78	91	80	81	58	62	56	62	56	59	81	93		2
3	77	92	82	79	62	62	59	60	57	58	81	95		3
4	75	93	88	77	69	62	59	62	54	60	74	85		4
5	78	88	88	68	72	66	63	57	52	62	79[b]	80		5
6	86	87	87	66	72	64	62[f]	60	56	63	80	81		6
7	85	81	76	67	69	62[h]	54[f]	59	55	70	74	89[b]		7
8	74	83	81	63	70	58[d]		54	59	63	70	80		8
9	68	87	79	72	73	58		54	60	62	71	79		9
10	74	76	80	67	74	57		59	59	64	75	87		10
11	77	78	77	64	69	56		62	63	63	72	78		11
12	90	91	71	70	66	56		59	60	62	74	76		12
13	82	82	72	69	61	57		58	56	60	72	78		13
14	77	73	81	68	62	60		53	57	63	72	78		14
15	71	66	91	65	61	56		52	57	64[d]	74[f]	86		15
16	75	69	87	61	62	58	60[f]	50	58			81		16
17	84	74	83	70	64	54		54	62			74		17
18	79	77	82	67		55		53	64			78		18
19	72	76	73	65		54		49	59	64[a]		88		19
20	68	74	80	63		52	53[e]	51	62	68		92		20
21	70	73	89	67		54		54	59	69		87		21
22	77	78	87	65		53	60[g]	53	62	64		82		22
23	73	79	80	67		59	58	55	64	58	77[d]	76		23
24	70	79	69	68		57	58	53	63	60	84	81		24
25	68	83	64	64		54	56	53	61	62	84	77		25
26	68	83	70	62		54	58	58	64	69	81	74		26
27	73	78	75	64		57	57	57	64	74	76	69		27
28	87	73	74	66		60	57	55	58	72	73	72		28
29	84		72	62		59	57	58	56	76	75	72		29
30	84		72	56		54	56	56	54	81	76[a]	74		30
31	91		74				60	61		79		72		31
Mean	77.2	80.4	78.7	67.3	65.9	57.5	57.9	56.2	59.0	65.2	76.3	80.4		
	372	336	372	360	204	341	200	372	360	331	263	370	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSINC BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 386

Daily Mean Departures from Balance, +100 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on Greenwich Mean Time, Cheltenham Magnetic Observatory, 1955

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.				Day
1	71	78	73	78	66	66	53	45	52	55	71	78				1
2	69	81	76	75	66[e]	65	49	49	56	58	71	72				2
3	72	87[a]	75	79	66[f]	62	52	52	53	59	69	69				3
4	70	83[b]	77	75	64	60	55	50[a]	54	57[b]	75	69				4
5	70	78	72	71	65	60	56		53	53	80	73				5
6	66	74	74	69	69	58	54		56	53	73	68				6
7	74	76	90	76	66	57	55		58	50	76	68				7
8	74	84	92	79	65	59	53		61	56	81	71				8
9	76	84	78	71	69	61	53		56	58	82	72				9
10	72	77	71	66	61	55	56	48[g]	54	57	71	81				10
11	76	82	72	71	61	56	56	54	58	54	75	82				11
12	79	98	73	69	67	58	52	53[a]	58	53	68	79				12
13	87	98	75	64	66	57	56	47[g]	56	56	64	82				13
14	82	90	77	62	64	59	54	46	60	58	65	75				14
15	74	92	77	66	64	61	51	48	61	61	67	76				15
16	76	82	72	67	64	57	51	55	57	71	60	86				16
17	77	78	78	71	67	58	50	54	60	74	64	81				17
18	73	75	76	69	69	57	52	53	58	68	70	80				18
19	74	71	73	68	66[b]	59	57	55	59	70	72	80				19
20	76	69	72	67	69[a]	61	56	57	59	65	70	86				20
21	75	68	66	65	64	60	57	57	59	63	66	84				21
22	79	68	67	72	61	62	60	54	58	65	67	86				22
23	80	70	76	76	61	59	57	58	54	63	65	76				23
24	78	76	74	71	63	60	60	58	54	63	69	71				24
25	84	74	76	71	64	61	56	55	58	70	72	64				25
26	84	74	77	72	63	59	50	56	59	68	81	73				26
27	84	74	87	75	59	63	48	53	54	66	76	84				27
28	90	70	83	73	60	60	49	56	52	61	78	81				28
29	92		85	68	61	56	51	54	59	64	90	75				29
30	92		79	68	62	55	48	52	56	68	86	81				30
31	89		78		65		46[b]	53		76		89				31
Mean	77.9	79.0	76.5	70.8	64.4	59.4	53.3	52.8	56.7	61.7	72.5	77.2				
	372	329	372	360	361	360	370	296	360	370	360	372	No	of	bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 387

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1937

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.														
Feb.														
Mar.	692	724	732	709	701	720	715	715	722	678	709	672	708	12
Apr.	602	593	602	602	613	620	615	619	615	581	581	588	603	30
May	521	524	510	508	540	540	549	548	533	520	505	524	527	31
June	361	358	357	342	346	372	366	350	347	352	348	370	356	30
July	368	386	389	386	404	403	414	390	377	372	380	371	387	31
Aug.	340	349	362	376	369	381	389	363	366	351	349	345	362	31
Sept.	434	460	447	453	455	463	456	455	476	449	446	443	453	30
Oct.	512	512	514	513	515	513	520	523	513	512	524	494	514	31
Nov.	641	622	635	635	632	639	644	649	653	646	642	631	639	30
Dec.	681	667	680	674	703	716	716	723	710	705	687	685	696	29
I	661	644	658	654	668	678	680	686	682	676	664	658	667	59
II	560	572	574	569	571	579	576	578	582	555	565	549	569	103
III	398	404	404	403	415	424	430	413	406	399	396	402	408	123
Year	540	540	545	542	551	560	562	559	557	543	542	536	548	285

TABLE 388

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1938

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	583	563	578	574	586	581	606	615	608	603	599	589	590	31
Feb.	600	599	591	587	604	608	619	614	604	605	597	596	602	28
Mar.	610	620	604	621	614	636	640	628	635	623	604	618	621	31
Apr.	511	504	525	514	522	523	531	517	512	495	493	491	512	30
May	500	492	476	497	503	525	521	503	494	493	473	486	497	31
June	474	494	490	488	502	528	507	506	499	474	469	482	493	25
July	468	472	461	466	469	480	478	491	456	469	461	456	469	29
Aug.	430	435	437	441	461	469	464	465	444	463	439	444	449	31
Sept.	459	472	476	483	481	492	495	488	466	484	450	469	476	30
Oct.	518	528	515	530	525	554	543	551	542	531	526	546	534	31
Nov.	584	598	581	605	598	605	619	617	616	602	597	586	601	30
Dec.	657	644	642	643	652	674	680	686	666	660	649	660	659	31
I	606	601	598	602	610	617	631	633	624	618	610	608	613	120
II	524	531	530	537	536	551	552	546	539	533	518	531	536	122
III	468	473	466	473	484	500	492	491	473	475	460	467	477	116
Year	533	535	531	537	543	556	558	557	545	542	529	535	542	358

TABLE 389

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1939

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	666	674	683	694	685	712	714	697	711	704	684	699	694	27
Feb.	612	608	609	627	636	643	664	659	640	604	600	616	626	28
Mar.	617	618	623	630	622	652	657	660	646	627	621	627	633	30
Apr.	486	491	493	483	496	501	492	511	482	472	483	475	489	28
May	376	364	373	368	386	382	398	422	394	401	394	346	384	29
June	345	324	346	340	346	363	386	371	366	349	361	341	353	30
July	367	348	351	342	378	362	368	388	375	365	360	353	363	31
Aug.	391	397	389	391	422	430	424	435	435	428	413	406	413	31
Sept.	385	383	371	372	359	398	392	414	418	382	363	340	381	13
Oct.	437	436	431	444	451	462	482	476	464	461	455	446	454	24
Nov.	614	610	613	637	624	643	653	643	637	629	630	631	630	28
Dec.	652	652	646	642	654	660	679	689	676	673	662	642	661	31
I	636	636	638	650	650	664	678	672	666	652	644	647	653	114
II	481	482	480	482	482	503	506	515	502	486	480	472	489	95
III	370	358	365	360	383	384	394	404	392	386	382	362	378	121
Year	496	492	494	497	505	517	526	530	520	508	502	494	507	330

TABLE 390

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1940

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	760	750	761	755	765	764	777	773	796	779	761	760	767	28
Feb.	700	724	726	717	736	735	741	746	735	727	710	703	725	29
Mar.	687	690	694	702	682	708	722	705	703	691	678	691	696	31
Apr.	600	606	603	620	613	639	639	659	639	609	594	605	619	28
May	585	586	594	588	597	590	602	630	614	604	587	583	597	30
June	481	503	492	471	508	512	508	505	515	520	505	504	502	27
July	461	449	439	433	450	455	484	486	483	472	471	447	461	28
Aug.	439	424	423	440	432	436	451	455	465	451	454	448	443	30
Sept.	473	475	468	462	486	487	482	500	492	493	472	482	481	30
Oct.	503	509	510	512	505	536	545	535	542	530	527	527	523	26
Nov.	549	562	549	564	570	576	581	586	583	581	569	563	569	30
Dec.	583	595	591	601	599	607	623	635	627	607	612	602	607	31
I	648	658	657	659	668	670	680	685	685	674	663	657	667	118
II	566	570	569	574	572	592	597	600	594	581	568	576	580	115
III	492	490	487	483	497	498	511	519	519	512	504	496	501	115
Year	569	573	571	572	579	587	596	601	599	589	578	576	582	348

TABLE 391

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1941

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	623	608	640	617	650	661	656	687	656	671	694	667	652	9
Feb.	721	741	725	724	726	719	729	766	753	739	724	734	733	14
Mar.	671	671	672	665	664	674	701	694	692	684	663	655	676	31
Apr.	574	569	588	581	588	592	592	602	596	580	564	569	583	30
May	557	546	557	551	545	576	569	576	565	550	552	552	558	31
June	446	483	453	462	479	473	501	497	487	475	457	444	471	30
July	425	434	423	429	420	447	435	447	424	436	422	431	431	30
Aug.	435	424	447	441	450	470	477	462	452	455	436	435	449	31
Sept.	448	424	428	432	431	463	449	452	443	431	442	434	440	30
Oct.	529	510	503	507	516	527	547	536	537	522	526	527	524	29
Nov.	615	611	605	617	612	631	643	626	638	621	620	625	622	30
Dec.	636	638	637	628	640	650	673	681	682	652	651	645	651	31
I	649	650	652	646	657	665	675	690	682	671	672	668	664	84
II	556	544	548	546	550	564	572	571	567	554	549	546	556	120
III	466	472	470	471	474	492	496	496	482	479	467	466	478	122
Year	557	555	557	554	560	574	581	586	577	568	563	560	566	326

TABLE 392

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1942

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	737	734	739	744	755	767	765	794	763	763	754	744	755	30
Feb.	775	771	767	785	812	801	823	828	812	798	791	787	796	28
Mar.	632	619	617	611	601	616	609	600	608	613	597	610	611	28
Apr.	611	607	638	602	624	637	624	622	611	617	608	596	616	30
May	600	582	594	589	589	610	601	626	622	602	609	617	603	30
June	559	554	557	557	556	560	565	564	564	557	562	562	560	30
July	474	467	467	463	469	491	496	500	490	499	489	483	482	30
Aug.	492	487	503	494	502	512	519	532	513	524	531	486	508	30
Sept.	538	542	524	534	528	534	553	549	538	529	537	536	537	29
Oct.	593	623	590	605	610	618	615	636	625	608	616	610	612	26
Nov.	682	660	680	680	686	687	700	711	706	709	701	690	691	30
Dec.	778	783	763	766	778	806	804	819	810	797	778	781	789	31
I	743	737	737	744	758	765	773	788	773	767	756	750	758	119
II	594	598	592	588	591	601	600	602	596	592	590	588	594	113
III	531	522	530	526	529	543	545	556	547	546	548	537	538	120
Year	623	619	620	619	626	636	639	649	639	635	631	625	630	352

TABLE 393

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1943

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	764	774	767	763	776	786	805	805	796	779	775	780	781	31
Feb.	807	792	801	816	816	824	843	846	819	820	820	812	818	27
Mar.	761	754	754	758	769	787	790	803	781	762	751	742	768	29
Apr.	719	735	719	709	725	738	745	743	726	732	715	725	728	30
May	608	614	595	599	610	635	640	652	637	627	613	606	620	31
June	544	548	523	509	534	544	558	557	553	543	532	531	540	29
July	456	448	442	449	453	459	477	491	495	496	451	452	464	28
Aug.	400	412	412	439	438	442	458	434	435	431	414	417	428	31
Sept.	491	498	488	480	485	484	490	504	484	482	497	497	490	30
Oct.	539	530	544	530	558	561	565	581	579	559	553	548	554	29
Nov.	655	656	639	670	653	676	669	701	708	689	675	670	672	28
Dec.	712	711	704	730	715	727	753	752	743	730	732	726	728	29
I	734	733	728	745	740	753	768	776	766	754	750	747	750	115
II	628	629	626	619	634	642	648	658	642	634	629	628	635	118
III	502	506	493	499	509	520	533	534	530	524	502	502	513	119
Year	621	623	616	621	628	638	650	656	646	637	627	626	632	352

TABLE 394

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1944

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	763	735	727	748	748	739	782	785	771	757	759	764	756	31
Feb.	794	774	784	774	792	800	797	807	805	778	784	783	789	29
Mar.	777	769	761	767	777	765	782	770	769	759	779	761	770	31
Apr.	723	723	717	739	725	724	747	746	733	726	701	705	726	29
May	661	674	667	661	657	664	660	665	679	670	672	668	666	31
June	606	613	600	600	608	624	617	618	628	611	598	611	611	27
July	593	593	593	608	611	591	592	598	596	578	577	589	593	29
Aug.	553	555	558	571	565	577	590	569	577	562	571	545	566	25
Sept.	640	656	633	636	641	649	657	657	633	633	629	639	642	23
Oct.	687	714	703	698	701	697	702	684	683	700	694	700	697	29
Nov.	807	779	786	804	804	813	813	822	812	815	808	798	805	27
Dec.	811	816	821	825	837	829	835	834	827	809	798	792	820	31
I	794	776	780	788	795	795	807	812	804	790	787	784	793	118
II	707	716	704	710	711	709	722	714	704	704	701	701	709	112
III	603	609	604	610	610	614	615	612	620	605	604	603	609	112
Year	701	700	696	703	705	706	715	713	709	700	697	696	703	342

TABLE 395

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1945

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	848	856	855	839	851	853	864	851	863	858	843	848	852	31
Feb.	830	829	824	823	808	833	832	836	824	816	822	826	825	25
Mar.	662	665	666	679	697	686	686	688	695	665	666	676	678	30
Apr.	674	674	654	664	687	688	688	696	680	681	662	675	677	26
May	693	686	697	693	698	702	698	703	698	705	699	683	696	31
June	598	612	610	588	614	619	623	625	611	598	593	605	608	30
July	542	543	524	532	541	559	562	578	566	552	533	544	548	25
Aug.	539	541	553	536	542	559	585	588	584	568	557	567	559	31
Sept.	582	609	577	592	584	584	619	628	621	593	592	579	597	30
Oct.	659	660	660	672	688	682	674	680	685	664	651	677	671	27
Nov.	740	735	731	727	718	736	747	731	734	748	736	723	734	29
Dec.	793	798	797	805	809	827	833	835	812	810	811	816	812	30
I	803	804	802	798	796	812	819	813	808	808	803	803	806	115
II	645	652	639	652	664	660	667	673	670	651	643	652	656	113
III	593	596	596	587	599	610	617	624	615	606	596	600	603	117
Year	680	684	679	679	686	694	701	703	698	688	681	685	688	345

TABLE 396

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1946

	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Mean	No. of complete days
Jan.	744	749	755	756	771	778	780	760	770	769	752	755	762	30
Feb.	505	494	517	506	521	540	553	549	544	536	513	500	523	28
Mar.	521	526	515	519	542	534	571	552	563	556	532	527	538	24
Apr.	499	510	497	501	513	545	538	549	517	512	508	502	516	26
May	399	405	413	420	420	435	442	420	440	416	392	399	417	28
June	369	336	343	343	371	380	388	402	385	389	378	391	373	29
July	257	254	241	260	270	271	351	317	297	285	271	260	278	29
Aug.	318	322	309	303	308	334	365	353	332	354	356	333	332	30
Sept.	330	344	340	308	315	350	349	356	337	349	353	338	339	21
Oct.	439	437	419	416	435	439	437	443	449	454	434	434	436	31
Nov.	507	516	502	507	510	517	505	521	502	487	489	503	506	26
Dec.	657	657	664	659	633	669	666	667	651	642	647	661	656	30
I	603	604	610	607	609	626	626	624	617	608	600	605	612	114
II	447	454	443	436	451	467	474	475	466	468	457	450	457	102
III	336	329	326	332	342	355	386	373	364	361	349	346	350	116
Year	462	462	460	458	467	483	495	491	482	479	469	467	473	332

TABLE 397

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1947

	1^{h}	3^{h}	5^{h}	7^{h}	9^{h}	11^{h}	13^{h}	15^{h}	17^{h}	19^{h}	21^{h}	23^{h}	Mean	No. of complete days
Jan.	665	643	661	666	679	678	698	680	662	675	644	652	667	29
Feb.	769	765	765	781	768	762	794	786	783	769	776	757	773	25
Mar.	640	651	645	647	671	665	682	658	680	662	662	639	658	31
Apr.	447	438	448	441	457	474	484	487	489	476	477	458	464	29
May	452	432	457	424	428	446	461	456	439	465	468	464	449	18
June	143	105	111	85	115	136	181	130	148	153	151	116	131	11
July	195	181	172	169	174	184	203	194	191	213	200	203	190	31
Aug.	115	109	131	123	121	137	128	149	142	152	173	143	135	30
Sept.	141	171	164	156	161	157	184	170	186	195	185	185	171	28
Oct.	257	263	265	247	240	266	290	291	300	298	280	277	273	22
Nov.	357	335	349	351	356	358	369	376	375	353	382	376	361	23
Dec.	435	422	417	423	432	455	480	467	465	466	464	464	449	21
I	556	541	548	555	559	563	585	577	571	566	566	562	562	98
II	371	381	380	373	382	390	410	402	414	408	401	390	392	110
III	226	207	218	200	210	226	243	232	230	246	248	232	226	90
Year	384	376	382	376	384	393	413	404	405	407	405	395	393	298

TABLE 398

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1948

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	519	505	498	505	519	544	563	547	513	538	540	526	526	10
Feb.	535	538	546	540	577	560	562	595	567	554	567	535	556	26
Mar.	502	493	511	503	518	516	528	539	522	517	512	508	514	31
Apr.	497	488	508	500	517	523	522	508	509	502	492	490	505	30
May	363	351	357	345	362	368	372	383	382	366	364	354	364	28
June	400	372	381	378	415	414	418	405	413	385	396	392	397	28
July	274	281	283	268	283	306	293	296	296	294	286	284	287	29
Aug.	248	257	250	282	284	317	318	322	327	300	288	264	288	23
Sept.	257	253	248	239	268	284	281	289	293	266	265	256	267	30
Oct.	379	365	385	381	380	384	397	390	386	359	375	368	379	28
Nov.	438	431	450	459	457	474	499	477	492	471	462	463	464	27
Dec.	565	554	547	561	579	571	590	576	577	555	567	560	567	30
I	514	507	508	516	533	537	554	549	537	530	534	521	528	93
II	409	400	413	406	421	427	432	432	428	411	411	406	416	119
III	321	315	318	318	336	351	350	352	354	336	331	324	334	108
Year	415	407	413	413	430	438	445	444	440	426	425	417	426	321

TABLE 399

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1949

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	508	499	501	498	525	538	525	510	527	504	520	498	513	24
Feb.	536	542	556	569	568	589	608	599	585	583	573	571	573	26
Mar.	622	626	629	642	648	653	660	650	629	623	596	588	630	21
Apr.	532	542	530	535	524	557	571	569	539	525	518	525	539	26
May	492	470	488	482	500	496	508	492	482	497	485	472	489	20
June	435	418	424	455	434	436	475	472	457	449	428	480	447	11
July	438	432	470	452	473	458	458	483	465	480	475	425	459	6
Aug.	416	413	431	434	433	429	463	460	450	404	404	404	428	14
Sept.	499	480	500	486	513	529	521	522	523	510	504	522	509	21
Oct.	452	446	453	452	470	486	480	486	500	497	477	483	474	30
Nov.	626	625	642	714	655	650	645	665	635	616	628	631	644	29
Dec.	684	662	698	692	712	718	721	718	706	726	732	708	706	20
I	588	582	599	618	615	624	625	623	613	607	613	602	609	99
II	526	526	528	529	539	556	558	557	548	539	524	530	538	98
III	445	433	453	455	460	457	476	477	464	458	448	446	456	51
Year	520	514	527	534	538	546	553	552	542	535	528	526	534	248

TABLE 400

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1950

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	634	622	615	610	633	637	653	639	650	623	614	638	631	29
Feb.	674	662	682	689	692	692	701	704	676	670	653	667	680	21
Mar.	698	718	708	683	690	710	733	726	714	688	696	718	707	25
Apr.	677	698	690	712	708	708	720	704	708	676	692	670	697	26
May	560	558	577	576	576	594	582	577	549	546	550	566	568	26
June	507	511	534	544	537	540	535	539	536	519	502	521	527	27
July	466	455	469	457	481	487	496	496	472	460	473	455	472	22
Aug.	488	476	497	492	504	503	522	510	497	516	485	494	499	31
Sept.	483	476	485	478	500	489	488	500	486	474	464	488	484	24
Oct.	547	573	553	563	571	579	584	585	576	550	535	538	563	31
Nov.	702	710	691	694	701	720	706	730	709	703	688	686	703	26
Dec.	875	882	845	858	866	848	871	862	865	859	846	882	863	8
I	721	719	708	713	723	724	733	734	725	714	700	718	719	84
II	601	616	609	609	617	622	631	629	621	598	597	604	613	106
III	505	500	519	517	524	531	534	530	514	510	502	509	516	106
Year	609	612	612	613	621	626	633	631	620	607	600	610	616	296

TABLE 401

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1951

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	741	747	757	760	770	785	819	811	788	791	780	762	776	23
Feb.	652	654	657	650	682	665	685	659	682	659	650	660	663	13
Mar.	696	678	685	708	712	704	717	705	689	675	657	674	692	31
Apr.	635	660	655	657	659	677	684	673	653	623	634	632	654	30
May	506	507	528	536	526	520	526	532	521	516	507	509	520	31
June	347	360	350	353	363	376	393	390	374	354	366	355	365	22
July	383	362	348	379	372	380	391	381	382	360	352	367	371	31
Aug.	323	335	327	319	336	345	351	339	350	333	325	336	335	31
Sept.	342	328	347	351	357	370	383	380	366	368	340	340	356	29
Oct.	426	439	439	445	453	459	447	445	440	422	414	432	438	31
Nov.	520	524	540	528	537	545	559	554	530	512	522	525	533	28
Dec.	573	552	578	580	585	594	601	614	586	582	575	550	581	30
I	623	619	633	630	644	647	666	660	646	636	632	624	638	94
II	525	526	532	540	545	552	558	551	537	522	510	520	535	121
III	390	391	388	397	399	405	415	410	407	391	388	392	398	115
Year	513	512	518	522	529	535	546	540	530	516	510	512	524	330

TABLE 402

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1952

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	554	554	555	556	566	586	597	611	596	566	554	554	571	31
Feb.	587	583	588	609	615	603	663	634	624	585	585	594	606	22
Mar.	556	553	560	560	573	587	590	586	562	554	562	563	567	23
Apr.	543	552	553	547	561	558	575	562	545	539	546	530	551	26
May	495	508	504	523	518	529	534	541	520	509	486	491	513	26
June	457	452	469	453	473	474	460	454	463	443	454	477	461	27
July	443	466	465	459	457	456	473	488	455	457	445	441	459	22
Aug.	444	434	444	455	440	459	453	455	435	428	475	439	447	22
Sept.	460	453	454	473	461	454	453	468	463	448	445	456	457	23
Oct.	545	561	555	557	576	565	570	581	545	557	529	557	558	30
Nov.	622	633	634	654	661	662	649	650	656	634	638	634	644	25
Dec.	674	686	692	698	729	720	725	718	681	708	684	678	699	25
I	607	614	617	629	643	643	658	653	639	623	615	615	630	103
II	526	530	530	534	543	541	547	549	529	524	520	526	533	102
III	460	465	470	472	472	480	480	484	468	459	465	462	470	97
Year	531	536	539	545	553	555	562	562	545	535	533	534	544	302

TABLE 403

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1953

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	666	677	687	698	703	713	708	728	692	681	681	669	692	18
Feb.	708	739	740	733	756	758	754	758	746	730	735	732	741	23
Mar.	708	710	709	715	730	724	740	722	693	692	690	695	711	28
Apr.	650	670	663	662	688	678	669	675	652	638	640	650	661	25
May	539	554	547	566	572	571	587	550	542	537	540	542	554	27
June	531	542	531	556	547	550	541	556	509	492	524	511	532	18
July	494	506	497	496	500	498	491	480	466	485	464	511	491	31
Aug.	494	503	502	518	494	532	490	493	508	499	490	502	502	18
Sept.	521	538	544	525	526	541	515	524	511	505	510	526	524	30
Oct.	584	599	599	594	588	593	581	596	585	574	582	590	589	29
Nov.	671	666	668	693	684	693	687	681	679	656	687	672	678	30
Dec.	723	730	744	756	750	760	736	742	724	723	725	722	736	25
I	692	703	710	720	723	731	721	727	710	698	707	699	712	96
II	616	629	629	624	633	634	626	629	610	602	606	615	621	112
III	514	526	519	534	528	538	527	520	506	503	504	516	520	94
Year	607	619	619	626	628	634	625	625	609	601	606	610	618	302

TABLE 404

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 75th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1954

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	768	762	756	777	791	780	798	784	775	766	747	760	772	31
Feb.	796	798	809	811	822	804	801	819	801	793	800	793	804	28
Mar.	790	795	787	796	808	794	797	782	782	772	765	776	787	31
Apr.	674	691	675	681	684	676	675	674	669	657	654	673	674	30
May	675	654	661	673	668	655	663	658	658	646	636	662	659	17
June	582	574	594	561	585	576	584	569	559	575	568	578	575	27
July	573	618	575	591	587	571	592	571	570	556	585	581	581	15
Aug.	578	588	577	561	551	549	547	536	548	563	564	575	561	31
Sept.	618	617	611	591	590	571	581	566	575	585	583	597	590	30
Oct.	655	664	656	652	645	650	648	650	643	650	664	668	654	26
Nov.	756	777	779	759	762	753	763	761	764	768	752	766	763	19
Dec.	778	787	803	813	791	828	805	819	794	800	787	796	801	30
I	774	781	787	790	793	791	792	796	784	782	772	779	785	108
II	684	692	682	680	682	673	675	668	667	666	666	678	676	117
III	602	608	602	596	598	588	596	584	584	585	588	599	594	90
Year	687	694	690	689	691	684	688	683	678	678	675	685	685	315

TABLE 405

Diurnal Variation in Departures from Balance, +1000 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on Greenwich Mean Time, for Days with Complete Records; by Months, Seasons, and Year, Cheltenham Magnetic Observatory, 1955

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	770	766	768	769	767	799	772	796	809	771	773	781	778	31
Feb.	780	776	778	778	794	780	784	800	788	799	786	774	785	26
Mar.	742	765	761	760	766	760	771	768	785	789	765	753	765	31
Apr.	705	711	705	706	703	724	711	713	709	700	705	704	708	30
May	633	627	630	637	637	652	652	639	640	647	643	649	640	27
June	579	578	580	599	603	600	589	604	612	605	582	591	594	30
July	536	527	533	530	544	539	539	547	541	545	534	517	536	30
Aug.	535	523	534	593	536	531	534	543	525	535	529	542	533	22
Sept.	565	573	555	571	579	575	574	578	569	568	555	553	568	30
Oct.	605	602	619	614	628	621	633	613	633	620	614	621	619	30
Nov.	707	715	709	722	723	734	733	729	741	744	728	712	725	30
Dec.	756	759	747	761	772	763	775	773	791	797	787	777	772	31
I	753	754	750	758	764	769	766	776	782	778	768	761	765	118
II	654	663	660	663	669	670	672	668	674	669	660	658	665	121
III	571	564	569	575	580	580	578	583	580	583	572	575	576	109
Year	659	660	660	665	671	673	672	676	679	677	667	665	669	348

TABLE 406

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°5 East Meridian Time, Christchurch Magnetic Observatory, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-110	-122	-116	-133	-129	-137	-138	-131	-147	-157	-151	-149		1
2	-115	-121	-120	-135	-137	-137	-133	-134	-144	-166	-157	-146		2
3	-114	-118	-128	-128	-137	-128	-132	-134	-154	-153	-157	-145		3
4	-104	-118	-128	-124	-131	-137	-130	-134	-158	-153	-153	-151		4
5	-106	-119	-129	-124	-118	-137	-139	-139	-158	-154	-153	-154		5
6	-104	-114	-124	-121	-125	-140	-140	-142	-152	-150	-154	-152		6
7	-106	-116	-125	-122	-127	-144	-138	-137	-156	-149	-144	-150		7
8	-109	-127	-132	-122	-126	-146	-140	-138	-152	-145	-143	-150		8
9	-105	-124	-126	-120	-123	-143	-133	-141	-151	-143	-147	-149		9
10	-103	-116	-121	-137	-131	-132	-135	-143	-150	-143	-158	-151		10
11	-101	-120	-120	-134	-118	-138	-131	-136	-147	-148	-159	-155		11
12	-101	-127	-121 c	-131	-122	-136	-135	-136	-146	-151	-154	-151		12
13	-105	-121	-134	-132	-122	-134	-132	-138	-155	-146	-152	-152		13
14	-107	-109	-134	-135	-117	-139	-137	-135	-150	-146	-150	-153		14
15	-105 b	-113	-140	-123	-117	-142	-136	-129	-150	-150	-157	-150		15
16	-118	-116	-155	-111	-120	-146	-133	-157	-155	-158	-148	-150		16
17	-123	-125	-155	-119	-124	-141	-136	-153	-155	-153	-143	-151		17
18	-120	-123	-146	-141 a	-129	-136	-137	-152	-146	-147	-141	-160		18
19	-118	-125	-139	-150 h	-122	-131	-141	-150	-146	-154	-143	-157		19
20	-115	-117	-135	-144	-122	-137	-144	-143	-150	-163	-151	-150		20
21	-116	-113	-124	-144	-123	-137	-147	-146	-142	-162	-150	-135		21
22	-118	-116	-123	-131	-117	-137	-142	-152	-146	-154	-150	-150		22
23	-116	-116	-127	-122	-117	-143	-140	-162	-147	-158	-149	-150		23
24	-117	-117	-128	-130 b	-123	-142	-138	-158	-162	-157	-151	-146		24
25	-131	-115	-124	-130	-133	-141	-134	-151	-149	-160	-156	-147		25
26	-133	-116 d	-121	-123	-129	-141	-131	-145	-153	-156	-157	-149		26
27	-132	-122	-121	-121	-131	-141	-128	-136	-155	-150	-155	-143		27
28	-127	-118	-122	-127	-134	-142	-126	-134	-153	-148	-156	-143		28
29	-122		-121	-129	-128	-138	-126	-133	-150	-145	-157	-146		29
30	-125		-128	-132	-137	-138	-122	-135	-151	-146	-153	-150		30
31	-128		-130		-139		-127	-140		-149		-158		31
Mean	-114.6	-118.7	-128.9	-129.2	-126.1	-138.7	-134.8	-141.8	-151.0	-152.1	-151.6	-149.8		
	370	332	369	345	372	360	372	372	360	372	360	368	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 407

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°5 East Meridian Time, Christchurch Magnetic Observatory, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-152	-152	-150	-141	-132	-130	-133	-120	-145	-138	-154	-137		1
2	-153	-158	-153	-139	-131	-133	-130	-123	-142	-150	-151	-141		2
3	-159	-155	-147	-143	-132 c	-134	-121	-131	-142	-151	-149	-152		3
4	-155	-153	-144	-143	-136	-129	-125	-131	-145	-151	-147	-149		4
5	-155	-156	-141	-142	-141	-129	-130	-135	-146	-150	-149	-150		5
6	-158	-152	-141	-141	-140	-125	-131	-136	-147	-145	-150	-149		6
7	-154	-151	-144	-144 a	-133	-125	-139	-134	-145	-144	-154	-149		7
8	-150	-147	-140	-142	-136	-125	-136	-144	-149	-145	-148 c	-149		8
9	-147	-137	-139	-143	-141	-127	-135	-141	-152	-143	-148 c	-148		9
10	-145	-141	-139	-140	-150	-127	-135	-143	-151	-141	-146	-148		10
11	-148	-145	-143	-141	-153	-130	-143	-145	-156	-154	-145	-150		11
12	-146	-142	-136	-138	-150 e	-135	-142	-145	-156	-156	-142	-152		12
13	-145	-149	-147	-140	-156 d	-135	-142	-149	-153 b	-155	-136	-155		13
14	-145	-151	-146	-137	-154	-132	-140	-144	-155	-151	-142	-157		14
15	-147	-147	-154	-141	-155	-128	-135	-143	-158	-158	-141	-152		15
16	-146	-145	-164	-143	-157	-129	-139	-141	-155	-155	-138	-152		16
17	-143	-149	-160	-140	-161	-134	-137	-136	-151	-151	-142	-154		17
18	-139	-153	-155	-144	-158	-141	-132	-132	-149	-156	-145	-159		18
19	-140	-152	-152	-141	-151	-140	-134	-131	-148	-169	-147	-160		19
20	-147	-151	-151	-136	-150	-139	-136	-131	-149	-161	-147	-156		20
21	-153	-146	-145	-135	-144	-137	-134	-140	-147	-152	-150	-152		21
22	-151	-144	-151	-142	-143	-132	-133	-141	-149	-157	-151	-151		22
23	-148	-145	-150	-134	-140	-136	-132	-143	-152	-154	-150	-141		23
24	-152	-135	-149	-130	-140	-135	-133	-142	-156	-152	-146	-157		24
25	-147	-139	-148	-132	-139	-132	-131	-141	-147	-143	-157	-162		25
26	-150	-145	-151	-133 a	-138	-131	-129 b	-138	-147	-144	-159	-165		26
27	-146	-141	-150	-133	-136	-132	-131 c	-136	-151	-144	-156	-166		27
28	-153	-149	-149	-135	-130	-135 g	-130	-133	-150	-155	-153	-161		28
29	-155	-151	-145	-136	-134	-134 f	-130	-134	-141	-152	-151	-162		29
30	-157		-138	-130 a	-141	135	-122	-137	-140	-150	-144	-161		30
31	-154		-135		-134		-123	-142		-149		-156		31
Mean	-149.7	-147.6	-147.0	-138 6	-143.1	-132.2	-133.0	-137.5	-149.1	-150.8	-148.0	-153.3		
	372	348	372	357	361	349	365	372	358	372	354	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 408

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°5 East Meridian Time, Christchurch Magnetic Observatory, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-167	-155	-170	-150	-154	-147	-143	-144	-147	-158	-157	-166		1
2	-166	-155	-179	-153	-154	-146	-142	-143	-149	-162	-157	-160		2
3	-158	-160	-160	-156	-154	-145	-140	-148	-156	-157	-154	-168		3
4	-159	-162	-159	-156	-153	-147	-142	-168	-160	-162	-158	-161		4
5	-152^{a}	-165	-167	-153	-151	-152	-140	-168	-156	-169	-161	-167		5
6	-158	-168	-169	-152^{b}	-153	-146	-145	-164	-154	-167	-158	-165		6
7	-155	-171	-160	-158^{f}	-150	-152	-146	-166	-153	-173	-165	-160		7
8	-153	-168	-163	-161	-151	-152	-141	-169	-152	-166	-162	-155		8
9	-153	-170	-162	-162	-148	-149	-142	-166	-157	-157	-162	-157		9
10	-152	-167	-165	-163	-146	-152	-148	-160	-163	-161	-171	-158		10
11	-156	-165	-168	-154	-149	-154	-144	-159	-161	-166	-178	-163		11
12	-152	-170	-163	-154	-154	-148	-146	-156	-152	-168	-174	-166		12
13	-155	-164	-160	-175	-167	-142	-148	-153	-149	-167	-174	-162		13
14	-157	-163	-167	-174	-168	-140	-146	-147	-154	-169	-165	-162		14
15	-155	-167	-166	-165	-159	-138	-152	-147	-156	-174	-171	-170		15
16	-157	-167	-167	-165	-160	-143	-152	-149	-155	-180	-170	-167		16
17	-158	-163	-167	-161	-159	-147	-152	-147	-159	-170	-171	-166		17
18	-162	-154	-169	-160	-155	-151	-153	-149	-158	-167	-173	-162		18
19	-159	-162	-165	-159	-153	-150	-154	-151	-155	-165	-164	-165		19
20	-157	-158	-157	-151	-158	-153	-161	-157	-154	-169	-162	-170		20
21	-160	-161	-161	-152	-156	-153	-160	-156	-158	-169	-169	-172		21
22	-165	-167	-151	-152	-150	-152	-154	-161	-159	-165	-169	-172		22
23	-162	-174	-148	-155	-151	-150	-156	-159	-152	-167	-172	-167		23
24	-156^{f}	-164	-146	-145	-156	-150	-159	-151	-147	-166	-169	-165		24
25	-168	-158	-145	-148	-155	-147	-158	-144	-153	-167	-162	-166		25
26	-174	-163	-145	-146	-157	-149	-161	-140	-154	-169	-156	-157		26
27	-166	-164	-140	-150	-153	-147	-161	-146	-153	-168	-159	-158		27
28	-160	-167	-153^{b}	-147	-155	-146	-153	-146	-144	-176	-162	-161		28
29	-160		-156	-146	-151	-147	-154	-143	-147	-172	-166	-161		29
30	-159		-157	-149	-147	-145	-148	-144	-151	-160	-169	-164		30
31	-160		-161		-147		-143	-145		-158		-173		31
Mean	-159.1	-164.0	-160.2	-155.7	-154.0	-148.0	-149.8	-153.1	-153.9	-166.6	-165.3	-164.1		
	365	336	370	352	372	360	372	372	360	372	360	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 409

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°5 East Meridian Time, Christchurch Magnetic Observatory, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-185	-173	-175	-177	-162	-163	-169	-160	-162	-165	-171	-171		1
2	-183	-177	-176	-174	-164	-164	-168	-166	-162	-169	-167	-169		2
3	-182	-175	-172	-174	-168	-163	-168	-167	-154	-171	-168	-174		3
4	-165	-181	-172	-168	-167	-161	-166	-163	-155	-169	-173	-174		4
5	-162	-173	-174	-169	-166	-155	-166	-162	-154	-169	-171	-172		5
6	-173	-170	-188	-164	-161	-158	-168	-157	-158	-173	-169	-179		6
7	-177	-180	-179	-168	-164	-151	-166	-156	-162	-172	-174	-174		7
8	-179	-177	-173	-165	-161	-152	-166	-158	-167	-172	-173	-173		8
9	-180	-175	-174	-165	-164	-156	-159	-161	-169	-169	-175	-176		9
10	-180	-178	-175	-170	-166	-155	-153	-161	-164	-167	-176	-167		10
11	-174	-177	-166	-169	-163	-155	-155	-164	-158	-173	-174	-168		11
12	-175	-169	-163	-163	-161	-155	-155	-162	-155	-176	-175	-171		12
13	-168	-167	-168	-162	-161	-153	-157	-162	-160	-178	-176	-180		13
14	-164	-167	-163	-161	-162	-149	-154	-161	-162	-178	-173	-182		14
15	-168	-167	-165	-161	-165	-146	-155	-160	-162	-175	-171	-183		15
16	-168	-169	-173	-158	-161	-147	-151	-154	-163	-168	-171	-181		16
17	-165	-167	-176	-167	-158	-145	-150	-152	-167	-165	-166	-174		17
18	-168	-156	-170	-169	-156	-150	-154	-150	-165	-166	-168	-173		18
19	-172	-158	-167	-171	-155	-153	-158	-161	-166	-171	-172	-175		19
20	-175	-167	-166	-164	-150	-160	-158	-166	-167	-169	-169	-181		20
21	-171	-177	-169	-164	-150	-153	-161	-162	-165	-170	-168	-183		21
22	-167	-178	-169	-160	-154	-153	-168	-159	-162	-166	-165	-181^{g}		22
23	-169^{a}	-176	-169	-161	-163	-160	-172	-161	-161	-171	-166			23
24	-165	-188	-166	-165	-172	-163	-171	-157	-164	-173	-171			24
25	-161	-190	-172	-165	-173	-169	-166	-157	-167	-174	-170			25
26	-166	-190	-172	-165	-179	-171	-157	-157		-171	-170	185^{e}		26
27	-167	-190	-168	-164	-178	-168	-159	-159		-172	-166	185		27
28	-166	-181	-168	-162	-178	-167	-160	-161		-173	-173	182		28
29	-166		-174	-164	-178	-163	-162	-157		-172	-178	178		29
30	-170		-180	-167	-173	-161	-161	-161	-163	-165	-178	177		30
31	-173		-176		-166^{e}		-159	-158		-167		182		31
Mean	-171.2	-174.8	-171.5	-165.9	-164.5	-157.3	-161.0	-159.7	-162.1	-170.6	-171.2	-176.8		
	371	336	372	360	367	360	372	372	312	372	360	324	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 410

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°.5 East Meridian Time, Christchurch Magnetic Observatory, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-180	-180	-192	-177	-168	-170	-174	-177	-173	-186 c	-178	-182 e		1
2	-179	-179	-187	-177	-171	-173	-171	-180	-173	-184	-168	-183		2
3	-184	-177	-185	-178	-174	-176	-179	-181	-174	-178	-182	-180		3
4	-182	-180	-183	-179	-175	-172	-180	-182	-177	-175	-184	-178		4
5	-186	-184	-184	-178	-176	-172	-177	-179	-176	-177	-183	-181		5
6	-184	-186	-186	-178	-179	-171	-174	-175	-172	-173	-187	-175		6
7	-182	-179	-195	-180	-177	-173	-167	-182	-178	-170	-196	-172		7
8	-182	-182	-190	-179	-180	-176	-166	-168	-177	-182	-188	-176		8
9	-181	-183	-190	-175	-177	-174	-168	-169	-176	-186	-194	-181		9
10	-179	-182	-192	-170	-171	-175	-169	-170	-179	-182	-195	-190		10
11	-174	-181	-182	-176	-173	-174	-170	-166	-179	-184	-194	-192		11
12	-179	-178	-182	-173	-173	-175	-164	-163	-182	-187	-188	-185		12
13	-182	-177	-188	-176	-175 a	-178	-166	-163	-182	-187	-187	-182		13
14	-185	-177	-180	-182	-173 f	-181	-172	-180	-184	-189	-187	-182		14
15	-179	-177	-180	-183	-174	-196	-172	-178	-189	-192	-184	-186		15
16	-176	-179	-182	-175	-173	-194	-175	-183	-191	-193	-188	-189		16
17	-179	-178	-181	-176	-170	-187	-180	-186	-184	-192	-187	-188		17
18	-178	-180	-185	-176	-174	-196	-179	-184	-188	-194	-182	-184		18
19	-169	-178	-184	-175	-174	-193	-177	-181	-189	-188	-180	-192		19
20	-172	-181	-180	-174	-173	-192	-179	-183	-179	-184	-180	-193		20
21	-173 g	-181	-182	-175	-162	-189	-182	-181	-182	-183	-184	-191		21
22	-178 f	-187	-176	-173	-163	-182	-178	-180	-183	-183	-187	-190		22
23	-183	-191	-180	-168	-166	-179	-178	-181	-184	-181	-185	-184		23
24	-180	-195	-174	-165	-170	-177	-180	-182	-186	-182	-189	-187		24
25	-175	-194	-176	-162	-177	-174	-183	-176	-187	-185	-186	-182		25
26	-178	-189 c	-175	-170	-179	-174	-175	-178	-192	-183	-181 a	-181		26
27	-182	-187	-174	-172	-180	-172	-176	-175	-191	-185	-189	-178		27
28	-183	-186	-176	-172	-180	-166	-180	-176	-197	-179	-191	-191		28
29	-187		-177	-173	-175	-171	-180	-170	-198	-190	-184	-199		29
30	-187		-177	-174	-170	-172	-191	-166	-191	-187	-179 g	-195		30
31	-180		-181		-170		-182	-169		-184		-194		31
Mean	-179.9	-182.4	-182.5	-174.7	-173.3	-178.5	-175.6	-175.9	-183.1	-184.0	-185.6	-185.3		
	359	333	372	360	365	360	372	372	360	369	352	367	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 411

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°.5 East Meridian Time, Christchurch Magnetic Observatory, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-193	-205	-196	-201	-194	-182	-180	-186	-185	-197	-189	-193		1
2	-191	-201	-200	-200	-192	-186	-186	-189	-184	-193	-187	-193		2
3	-183	-196	-198	-196	-196	-186	-186	-192	-187	-195	-191	-191		3
4	-186	-197	-196	-194	-197	-183	-191	-192	-190	-188	-187	-193		4
5	-188	-196	-195	-192	-191	-178	-188	-189	-189	-189	-188	-195		5
6	-183	-203	-197	-195	-198	-174	-188	-185	-182	-190	-188	-193		6
7	-181	-204	-209	-195	-201	-177	-185	-184	-186	-191	-187	-192		7
8	-188	-209	-204	-193	-199	-172	-182	-184	-184	-188	-185	-192		8
9	-187	-200	-205	-196	-194	-179	-180	-184	-182	-186	-189	-189		9
10	-188	-199	-199	-196	-190	-181	-180	-184	-188	-186	-188	-192		10
11	-200	-200	-195	-189	-189	-178	-182	-183 b	-184	-193	-186	-193		11
12	-197	-204	-196	-190	-186	-178	-178	-180	-186	-201	-187	-194		12
13	-195	-199	-197	-190	-184	-176	-179	-179	-186	-205 g	-194	-193		13
14	-204	-197	-192	-191	-185	-180	-181	-175	-184		-186	-194		14
15	-201	-196	-188	-187	-181	-178	-186	-170	-188		-189	-191		15
16	-194	-195	-183	-187	-180	-184	-186	-171	-194	-203 h	-191	-193		16
17	-195	-193	-185	-184	-181	-181	-181	-172	-187	-202 b	-196	-200		17
18	-192	-192	-182	-189	-185	-176	-182	-183	-186	-199	-196	-201		18
19	-190	-195	-186	-187	-178	-174	-179	-190	-193	-194	-191	-201		19
20	-192	-201	-191	-189	-178	-176	-171	-194	-198	-194	-196	-204		20
21	-191	-197	-192	-182	-175	-171	-178	-191	-198	-193	-196	-202		21
22	-189	-199	-190	-186	-171	-171	-182	-194	-202	-197	-190	-198		22
23	-187	-198	-189	-188	-169	-181	-185	-197	-189	-200	-189	-199		23
24	-189	-199	-194	-188	-170	-185	-187	-195	-177	-195	-191	-202		24
25	-199	-198	-194	-182	-175	-184	-180	-192	-182	-196	-190	-203		25
26	-206	-194	-184	-188	-175	-181	-182	-191	-191	-193	-190	-204		26
27	-205	-196	-185	-190	-181	-188	-181	-183	-198	-191	-193	-209		27
28	-205	-195	-183	-194	-185	-183	-181	-182	-197	-186	-196	-203		28
29	-193	-194	-188	-200	-182	-188	-180	-180	-195	-188	-197	-209		29
30	-198		-190	-204	-186	-191	-182	-183	-196	-188	-194	-207		30
31	-198		-195		-183		-185	-187		-192		-200		31
Mean	-193.1	-198.3	-192.6	-191.4	-184.9	-180.1	-182.4	-185.2	-188.9	-193.6	-190.6	-197.5		
	372	348	372	360	372	360	372	370	360	331	360	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 412

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°.5 East Meridian Time, Christchurch Magnetic Observatory, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.				Day
1	-199	-201	-208	-196	-201	-197	-191	-199	-202	-194	-212					1
2	-201	-204	-209	-198	-199	-198	-200	-197	-200	-196	-207					2
3	-200	-209	-206	-198	-200	-191	-198	-200	-198	-200	-209					3
4	-193	-199	-203	-199	-199	-195	-192	-203	-200	-200	-206					4
5	-196	-209	-199	-199	-198	-198	-191	-201	-201	-201	-207					5
6	-202	-210	-202	-196	-196	-198	-190	-210	-205	-202	-204					6
7	-203	-207	-208	-196	-202	-199	-195	-208	-205	-203	-206					7
8	-201	-209	-206	-194	-203	-197	-198	-202	-210	-201	-205					8
9	-203	-206	-206	-192	-201	-197	-197	-199	-213	-201	-202					9
10	-202	-206	-210	-189	-196	-195	-193	-200	-205	-201	-196					10
11	-198	-206	-208	-194	-194	-193	-186	-195	-203	-205	-198					11
12	-195	-200	-197	-200	-196	-193	-193	-194	-201	-204	-202					12
13	-195	-201	-198	-204	-197	-196	-198	-201	-203	-198	-203					13
14	-202	-202	-199	-202	-192	-198	-199	-199	-207	-201	-202					14
15	-197	-202	-199	-212 e	-188	-195	-194	-198	-202	-200	-204					15
16	-205	-204	-206	-214 b	-191	-193	-190	-196	-203	-203	-208					16
17	-204	-202	-205	-212	-196	-193	-193	-206	-203	-202	-207					17
18	-201	-204	-208	-212	-200	-192	-195	-201	-204	-202	-208					18
19	-202	-198	-208	-208	-196	-190	-194	-198	-206	-201	-200					19
20	-207	-198	-206	-201	-197	-193	-193	-200	-206	-208	-199					20
21	-206	-200	-210	-196	-204	-195	-194	-194	-205	-212	-205					21
22	-202	-202	-212	-204	-204	-191	-196	-197	-209	-215	-210					22
23	-197	-208	-210	-203	-207	-194	-202	-200	-206	-211	-214					23
24	-195	-207	-212	-207	-202	-193	-200	-202	-206	-208	-215					24
25	-194	-204	-214	-208	-200	-190	-195	-202	-201	-205	-214					25
26	-200	-201	-210	-207	-204	-186	-196	-199	-202	-202	-212					26
27	-203	-201	-205	-208	-201	-189	-200	-197	-199	-204	-216					27
28	-203	-208	-205	-205	-194	-192	-199	-195	-192	-202	-214					28
29	-205		-197	-201	-198	-192	-198	-200	-194	-202	-209					29
30	-201		-195	-199	-204	-190	-198	-202	-194	-207	-208 f					30
31	-203		-194		-200		-199	-200		-206						31
Mean	-200.5	-203.9	-205.0	-201.8	-198.7	-193.8	-195.4	-199.8	-202.8	-203.1	-206.7					
	372	336	372	353	372	360	372	372	360	372	354		No.	of	bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 413

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°.5 East Meridian Time, Christchurch Magnetic Observatory, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.				Day
1		-220	-219	-206	-208	-211	-208	-202	-203	-223	-229	-217				1
2		-219	-219	-206	-212	-211	-206	-202	-207	-221	-222	-213				2
3		-218	-216	-209	-209	-214	-200	-202	-210	-214	-219	-218				3
4		-212	-218	-211	-210	-211	-199	-200	-213	-212	-218	-221				4
5		-211	-217	-205	-206	-212	-196	-202 c	-210	-215	-222	-225				5
6		-208	-217	-209	-206	-211	-198	-205	-205	-221	-223	-222				6
7		-206	-218	-214 b	-206	-210	-199	-203	-204	-219	-222	-218				7
8	-217 h	-211	-215	-215	-206	-205	-195	-203	-201	-222	-218	-224				8
9	-218	-221	-214	-210	-210	-203	-191	-199	-202	-214	-223	-223				9
10	-218	-225	-215	-209	-212	-200	-190	-204	-203	-213	-228	-216				10
11	-210	-222	-211	-207	-212	-198	-200	-202	-205	-216	-232	-218				11
12	-204	-213 b	-214	-204	-211	-197	-199	-196	-210	-209	-226	-219 c				12
13	-210	-210 a	-215	-205	-212	-193	-199	-193	-211	-206	-224	-216				13
14	-212	-222	-214	-204	-211	-203	-206	-200	-208	-206	-224	-222				14
15	-210	-220	-211	-211	-212	-207	-206	-205	-209	-203	-227	-224				15
16	-214	-217	-215 c	-206	-213	-209	-204	-205	-213	-206	-223	-223				16
17	-213	-219	-216	-205	-215	-201	-203	-208	-215	-216	-213	-223				17
18	-211	-223	-212 b	-205	-204	-203	-201	-207	-217	-218 f	-215	-220				18
19	-212	-222	-214	-204	-207	-199	-203	-212	-215	-226	-217	-221 d				19
20	-213	-216	-215	-210	-202	-203	-198	-207	-212	-224	-221	-221				20
21	-217	-219	-212	-210	-199	-206	-194	-212	-210	-219	-222	-222				21
22	-214	-219	-209	-208	-195	-209	-194	-213	-213	-225	-228	-221				22
23	-210	-225	-207	-202	-194	-210	-193	-212	-215	-226	-226 b	-220				23
24	-211	-224	-208	-202	-194	-209	-199	-211	-218	-218	-220	-219				24
25	-214	-221	-212	-212	-207	-202 b	-196	-211	-218	-218	-216	-219				25
26	-213	-213	-217	-212	-202	-199	-196	-208	-218	-215	-214	-222				26
27	-215	-215	-214	-210	-202	-201	-195	-202	-218	-217	-214	-225 b				27
28	-221	-217	-220	-204	-208	-204	-194	-204	-217	-217	-221	-227				28
29	-219		-210	-209	-204	-207	-194	-209	-216	-221	-226	-229				29
30	-217		-202	-207	-205	-213	-199	-211	-221	-223	-221	-224				30
31	-217		-206		-206		-199	-206		-225		-220				31
Mean	-213.8	217.4	-213.6	-207.7	-206.4	-2054	-1985	-205.0	-211.2	-217.0	-221.8	-221.0				
	280	333	367	358	372	358	372	369	360	366	358	363	No.	of	bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 414

Daily Mean Departures from Balance, (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 29 in. Hg, on 172°.5 East Meridian Time, Christchurch Magnetic Observatory, 1955

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	-226	-238	-228	-239	-131	-232	-223	-227	-234	-245		-247		1
2	-228	-233	-230	-236	-230	-225	-223	-226	-237	-244		-250 g		2
3	-232	-227	-229	-237	-231	-227	-222	-228	-238	-243 h				3
4	-228	-230	-227	-231	-231	-228	-225	-225	-238		-243 h			4
5	-226	-225	-228	-227 c	-235	-229	-228	-226 b	-236		-243 b			5
6	-229	-229	-235	-229	-239	-227	-230	-228	-233 b		-244			6
7	-233	-225	-232	-228	-240	-223	-227	-223	-231		-242			7
8	-226	-225	-234	-234	-235	-223	-226	-222	-228		-238			8
9	-227	-226	-236	-229	-232	-223	-224	-224 b	-225		-244			9
10	-230	-226	-234	-228	-232	-224 b	-226	-222	-231		-243			10
11	-226	-223	-228	-226	-228	-225	-223	-220	-233		-237			11
12	-230	-222	-230	-229 k	-232	-229	-215	-226 b	-239		-241 b			12
13	-227	-228		-232 h	-230	-231	-216	-226	-234 a		-243			13
14	-225	-226	-228 f	-229	-228	-226	-218	-229	-233 g		-239			14
15	-227	-223	-228	-231	-231	-224	-222	-224			-240	-250 h		15
16	-230	-228	-225	-235	-231	-222	-229	-224			-240 b	-252		16
17	-226	-237	-225	-238	-228	-221	-227	-217			-252 h	-253		17
18	-233	-237	-221	-237 a	-232	-224	-224	-217			-241	-253		18
19	-235	-237	-224	-233	-234	-226	-222	-211	-235 k		-241	-252		19
20	-234	-232	-226	-235	-227	-229	-220	-212	-238		-249	-248		20
21	-230	-229	-224	-228	-224	-226	-222	-221	-234		-247 d	-251		21
22	-222	-234	-220	-227	-221	-222	-221	-228	-234		-246	-252		22
23	-225	-236	-232	-224	-218	-219	-217	-233	-249		-243	-254		23
24	-229	-236	-237	-224	-220	-221	-220	-235	-249		-242	-255		24
25	-222	-237	-234	-229	-219	-221	-224	-232	-242		-250	-251		25
26	-225	-235	-231	-235	-224	-222	-226	-241	-235		-253	-246		26
27	-225	-237	-229	-225	-224	-221	-220	-235	-238 a		-250	-243		27
28	-225	-234	-228	-221	-234	-225	-226	-231	-240		-245 h	-247		28
29	-235		-228	-226 h	-237	-224	-228	-232	-242 b		-235 h	-248		29
30	-243		-225	-228	-235	-224	-229	-235	-243		-240 d	-248		30
31	-242		-228		-236		-227	-236				-252		31
Mean	-229.1	-2305	-228.8	-2303	-229.9	-2248	-2235	-2263	-2365	-244.0	-243.4	-250.1		
	372	336	354	336	372	358	372	366	291	28	278	213	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 415

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1947

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-1161	-1149	-1161	-1158	-1137	-1128	-1143	-1150	-1147	-1135	-1150	-1162	-1148	30
Feb.	-1191	-1193	-1191	-1190	-1196	-1202	-1181	-1192	-1176	-1185	-1192	-1191	-1190	27
Mar.	-1295	-1309	-1308	-1299	-1294	-1300	-1288	-1269	-1277	-1302	-1291	-1304	-1295	30
Apr.	-1297	-1315	-1317	-1302	-1294	-1272	-1245	-1253	-1250	-1254	-1263	-1287	-1279	27
May	-1257	-1270	-1269	-1287	-1268	-1274	-1242	-1220	-1222	-1253	-1255	-1259	-1256	31
June	-1400	-1411	-1391	-1400	-1381	-1384	-1361	-1384	-1376	-1387	-1393	-1395	-1389	30
July	-1367	-1370	-1365	-1349	-1336	-1361	-1323	-1327	-1334	-1345	-1347	-1344	-1347	31
Aug.	-1430	-1411	-1423	-1419	-1413	-1407	-1395	-1392	-1389	-1405	-1421	-1424	-1411	31
Sept.	-1522	-1522	-1522	-1539	-1502	-1487	-1471	-1487	-1503	-1510	-1519	-1534	-1510	30
Oct.	-1523	-1544	-1538	-1538	-1516	-1522	-1499	-1494	-1514	-1504	-1529	-1534	-1521	31
Nov.	-1525	-1512	-1527	-1527	-1514	-1521	-1497	-1519	-1502	-1519	-1523	-1535	-1518	30
Dec.	-1496	-1497	-1510	-1528	-1503	-1495	-1484	-1486	-1487	-1484	-1486	-1506	-1497	30
I	-1343	-1338	-1347	-1351	-1338	-1336	-1326	-1337	-1328	-1331	-1338	-1348	-1338	117
II	-1409	-1422	-1421	-1420	-1402	-1395	-1376	-1376	-1386	-1392	-1400	-1415	-1401	118
III	-1364	-1366	-1362	-1364	-1350	-1356	-1330	-1331	-1330	-1348	-1354	-1356	-1351	123
Year	-1372	-1375	-1376	-1378	-1363	-1362	-1344	-1348	-1348	-1357	-1364	-1373	-1363	358

TABLE 416

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1948

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-1494	-1500	-1521	-1507	-1487	-1498	-1478	-1487	-1467	-1488	-1497	-1507	-1494	31
Feb.	-1491	-1490	-1484	-1488	-1467	-1485	-1464	-1471	-1489	-1461	-1478	-1476	-1479	29
Mar.	-1474	-1489	-1477	-1487	-1469	-1464	-1450	-1471	-1462	-1461	-1471	-1449	-1469	31
Apr.	-1399	-1401	-1387	-1402	-1403	-1385	-1371	-1379	-1386	-1384	-1390	-1388	-1390	27
May	-1435	-1442	-1441	-1436	-1420	-1410	-1412	-1420	-1439	-1424	-1434	-1428	-1428	28
June	-1338	-1321	-1328	-1331	-1316	-1320	-1294	-1293	-1283	-1330	-1331	-1351	-1320	28
July	-1348	-1342	-1337	-1328	-1322	-1318	-1319	-1328	-1331	-1342	-1331	-1330	-1331	29
Aug.	-1400	-1382	-1388	-1370	-1368	-1354	-1346	-1363	-1364	-1375	-1380	-1404	-1374	31
Sept.	-1507	-1496	-1509	-1494	-1474	-1465	-1465	-1467	-1487	-1504	-1494	-1489	-1488	29
Oct.	-1512	-1526	-1502	-1518	-1489	-1503	-1480	-1503	-1508	-1495	-1530	-1534	-1508	31
Nov.	-1479	-1476	-1494	-1466	-1471	-1480	-1458	-1463	-1478	-1480	-1497	-1493	-1478	28
Dec.	-1549	-1539	-1550	-1535	-1522	-1541	-1528	-1520	-1530	-1546	-1526	-1554	-1537	31
I	-1503	-1501	-1512	-1499	-1487	-1501	-1482	-1485	-1491	-1494	-1500	-1508	-1497	119
II	-1473	-1479	-1469	-1475	-1459	-1454	-1442	-1455	-1461	-1461	-1471	-1465	-1464	118
III	-1380	-1372	-1374	-1366	-1356	-1350	-1342	-1351	-1354	-1368	-1369	-1378	-1363	116
Year	-1452	-1451	-1452	-1447	-1434	-1435	-1422	-1430	-1435	-1441	-1447	-1450	-1441	353

TABLE 417

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1949

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-1625	-1605	-1611	-1595	-1580	-1588	-1575	-1571	-1587	-1594	-1586	-1627	-1595	28
Feb.	-1644	-1650	-1654	-1648	-1631	-1648	-1625	-1639	-1631	-1645	-1630	-1661	-1642	28
Mar.	-1618	-1621	-1610	-1607	-1583	-1574	-1590	-1606	-1609	-1619	-1609	-1619	-1605	30
Apr.	-1577	-1571	-1576	-1565	-1559	-1543	-1540	-1546	-1545	-1562	-1536	-1559	-1557	28
May	-1556	-1531	-1532	-1506	-1505	-1510	-1552	-1558	-1569	-1559	-1534	-1559	-1539	31
June	-1491	-1486	-1488	-1490	-1461	-1473	-1455	-1478	-1473	-1480	-1493	-1496	-1480	30
July	-1515	-1505	-1510	-1505	-1489	-1478	-1473	-1474	-1497	-1512	-1515	-1520	-1499	31
Aug.	-1564	-1555	-1542	-1542	-1515	-1504	-1488	-1508	-1512	-1542	-1550	-1545	-1530	31
Sept.	-1549	-1552	-1563	-1540	-1539	-1537	-1528	-1520	-1529	-1535	-1539	-1541	-1539	30
Oct.	-1660	-1665	-1667	-1665	-1658	-1642	-1650	-1672	-1672	-1689	-1686	-1685	-1668	31
Nov.	-1648	-1658	-1664	-1665	-1648	-1648	-1656	-1654	-1660	-1657	-1656	-1613	-1654	30
Dec.	-1649	-1648	-1637	-1648	-1625	-1630	-1604	-1619	-1624	-1651	-1641	-1665	-1637	31
I	-1642	-1640	-1642	-1639	-1621	-1628	-1615	-1621	-1626	-1637	-1628	-1642	-1632	117
II	-1601	-1602	-1604	-1597	-1582	-1574	-1577	-1586	-1589	-1601	-1592	-1601	-1592	119
III	-1532	-1519	-1518	-1511	-1492	-1491	-1492	-1504	-1513	-1523	-1523	-1530	-1512	123
Year	-1592	-1587	-1588	-1582	-1565	-1564	-1561	-1570	-1576	-1587	-1581	-1591	-1579	359

TABLE 418

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1950

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-1727	-1722	-1721	-1730	-1708	-1701	-1700	-1700	-1705	-1708	-1712	-1731	-1714	30
Feb.	-1762	-1766	-1776	-1762	-1733	-1722	-1714	-1735	-1743	-1762	-1754	-1767	-1750	28
Mar.	-1720	-1730	-1732	-1729	-1694	-1714	-1699	-1706	-1701	-1714	-1707	-1725	-1714	31
Apr.	-1657	-1657	-1777	-1661	-1656	-1657	-1647	-1645	-1658	-1659	-1673	-1673	-1660	30
May	-1644	-1646	-1640	-1637	-1644	-1642	-1626	-1637	-1636	-1652	-1638	-1651	-1641	30
June	-1597	-1576	-1567	-1572	-1566	-1553	-1557	-1571	-1566	-1590	-1588	-1590	-1574	30
July	-1629	-1634	-1623	-1608	-1584	-1585	-1592	-1605	-1604	-1624	-1613	-1648	-1612	31
Aug.	-1628	-1612	-1610	-1598	-1587	-1593	-1573	-1580	-1589	-1593	-1615	-1628	-1600	31
Sept.	-1642	-1621	-1617	-1639	-1611	-1607	-1589	-1599	-1628	-1642	-1612	-1636	-1620	26
Oct.	-1712	-1711	-1698	-1714	-1676	-1691	-1698	-1687	-1719	-1718	-1726	-1721	-1706	31
Nov.	-1705	-1717	-1733	-1711	-1714	-1710	-1688	-1720	-1718	-1710	-1718	-1729	-1714	30
Dec.	-1776	-1754	-1767	-1761	-1768	-1771	-1743	-1758	-1775	-1782	-1763	-1754	-1764	26
I	-1742	-1740	-1749	-1741	-1731	-1726	-1711	-1728	-1735	-1741	-1737	-1745	-1736	114
II	-1683	-1680	-1681	-1686	-1659	-1667	-1658	-1659	-1676	-1683	-1680	-1689	-1675	118
III	-1624	-1617	-1610	-1604	-1595	-1593	-1587	-1598	-1599	-1615	-1614	-1629	-1607	122
Year	-1683	-1679	-1680	-1677	-1662	-1662	-1652	-1662	-1670	-1679	-1677	-1688	-1673	354

TABLE 419

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1951

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	-1820	-1820	-1809	-1819	-1783	-1801	-1777	-1779	-1816	-1799	-1814	-1811	-1804	29
Feb.	-1833	-1817	-1827	-1819	-1807	-1798	-1803	-1824	-1831	-1826	-1821	-1827	-1819	27
Mar.	-1830	-1838	-1826	-1828	-1819	-1820	-1792	-1812	-1821	-1845	-1830	-1842	-1825	31
Apr.	-1770	-1760	-1755	-1750	-1744	-1733	-1723	-1737	-1742	-1760	-1737	-1748	-1747	30
May	-1737	-1747	-1733	-1717	-1708	-1727	-1718	-1724	-1723	-1743	-1748	-1752	-1731	29
June	-1778	-1797	-1779	-1800	-1786	-1788	-1767	-1774	-1774	-1795	-1782	-1807	-1786	30
July	-1765	-1758	-1773	-1759	-1755	-1746	-1732	-1749	-1753	-1766	-1751	-1778	-1757	31
Aug.	-1775	-1762	-1769	-1755	-1746	-1745	-1730	-1746	-1771	-1772	-1763	-1778	-1759	31
Sept.	-1837	-1830	-1822	-1837	-1818	-1826	-1795	-1822	-1825	-1833	-1843	-1861	-1831	30
Oct.	-1850	-1853	-1863	-1834	-1831	-1802	-1832	-1826	-1839	-1850	-1833	-1869	-1840	30
Nov.	-1879	-1848	-1873	-1866	-1843	-1835	-1827	-1830	-1879	-1888	-1878	-1886	-1861	28
Dec.	-1876	-1858	-1859	-1866	-1851	-1821	-1830	-1848	-1839	-1867	-1866	-1885	-1856	30
I	-1852	-1836	-1842	-1842	-1821	-1814	-1809	-1820	-1841	-1845	-1845	-1852	-1835	114
II	-1827	-1820	-1816	-1812	-1803	-1795	-1786	-1799	-1807	-1822	-1811	-1830	-1811	121
III	-1764	-1766	-1764	-1758	-1749	-1752	-1737	-1748	-1755	-1769	-1761	-1779	-1758	121
Year	-1814	-1807	-1807	-1804	-1791	-1787	-1777	-1789	-1801	-1812	-1806	-1820	-1801	356

TABLE 420

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1952

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-1948	-1939	-1931	-1944	-1926	-1923	-1909	-1928	-1927	-1925	-1942	-1963	-1934	31
Feb.	-1988.	-1988	-2011	-1987	-1986	-1959	-1967	-1958	-1990	-1981	-1991	-2022	-1986	29
Mar.	-1938	-1930	-1926	-1936	-1914	-1934	-1909	-1914	-1928	-1940	-1954	-1946	-1930	31
Apr.	-1918	-1912	-1923	-1919	-1909	-1898	-1900	-1903	-1913	-1913	-1906	-1928	-1912	30
May	-1853	-1856	-1857	-1862	-1847	-1844	-1832	-1818	-1846	-1857	-1843	-1875	-1849	31
June	-1800	-1807	-1808	-1806	-1795	-1811	-1778	-1788	-1799	-1813	-1806	-1808	-1802	30
July	-1832	-1823	-1823	-1827	-1808	-1809	-1809	-1823	-1826	-1834	-1835	-1852	-1825	31
Aug.	-1862	-1861	-1851	-1855	-1841	-1848	-1830	-1843	-1854	-1851	-1864	-1858	-1852	30
Sept.	-1893	-1900	-1891	-1889	-1853	-1891	-1888	-1866	-1905	-1905	-1895	-1925	-1892	30
Oct.	-1922	-1910	-1908	-1928	-1914	-1927	-1905	-1913	-1942	-1952	-1935	-1941	-1925	26
Nov.	-1914	-1913	-1913	-1894	-1880	-1882	-1901	-1890	-1917	-1915	-1917	-1939	-1906	30
Dec.	-1980	-1966	-1959	-1976	-1946	-1956	-1958	-1963	-1976	-1988	-1996	-1990	-1971	31
I	-1958	-1951	-1954	-1950	-1934	-1930	-1934	-1935	-1952	-1952	-1962	-1978	-1949	121
II	-1918	-1913	-1912	-1918	-1898	-1912	-1900	-1899	-1922	-1928	-1922	-1935	-1915	117
III	-1837	-1837	-1835	-1838	-1823	-1828	-1812	-1818	-1831	-1839	-1837	-1848	-1832	122
Year	-1904	-1900	-1900	-1902	-1885	-1890	-1882	-1884	-1902	-1906	-1907	-1920	-1899	360

TABLE 421

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1953

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-2004	-1990	-1980	-2008	-1997	-1993	-2009	-2011	-2022	-2022	-2015	-2003	-2004	31
Feb.	-2041	-2031	-2044	-2028	-2039	-2039	-2027	-2047	-2044	-2041	-2056	-2046	-2040	28
Mar.	-2058	-2045	-2064	-2040	-2040	-2048	-2043	-2043	-2065	-2064	-2061	-2060	-2053	31
Apr.	-2001	-2008	-1990	-2006	-2005	-2019	-1996	-2018	-2009	-2023	-2026	-2011	-2009	28
May	-1998	-1993	-1971	-1988	-1979	-1982	-1963	-1987	-1994	-1992	-1993	-1999	-1987	31
June	-1956	-1936	-1946	-1938	-1941	-1918	-1916	-1923	-1942	-1949	-1938	-1938	-1937	30
July	-1956	-1967	-1936	-1950	-1939	-1945	-1954	-1937	-1973	-1967	-1959	-1965	-1954	31
Aug.	-2004	-2011	-2000	-1994	-1981	-1991	-1993	-1991	-2014	-2012	-2003	-1987	-1998	31
Sept.	-2028	-1999	-2026	-2037	-2018	-2036	-2026	-2037	-2038	-2050	-2006	-2036	-2028	30
Oct.	-2026	-2029	-2035	-200.5	-2024	-2042	-2030	-2036	-2034	-2045	-2033	-2032	-2031	31
Nov.	-2073	-2077	-2068	-2040	-2045	-2066	-2062	-2088	-2075	-2078	-2071	-2079	-2069	29
Dec.														
I	-2033	-2033	-2031	-2025	-2027	-2033	-2033	-2049	-2047	-2047	-2047	-2043	-2038	88
II	-2028	-2020	-2029	-2022	-2022	-2036	-2024	-2034	-2036	-2046	-2032	-2035	-2030	120
III	-1978	-1977	-1963	-1968	-1960	-1959	-1956	-1960	-1981	-1980	-1973	-1972	-1969	123
Year	-2013	-2010	-2008	-2005	-2003	-2009	-2004	-2014	-2021	-2024	-2017	-2017	-2012	331

TABLE 422

Diurnal Variation in Departmres from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1954

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-2131	-2142	-2122	-2140	-2116	-2149	-2123	-2126	-2123	-2139	-2138	-2153	-2134	23
Feb.	-2174	-2182	-2172	-2177	-2170	-2174	-2180	-2167	-2178	-2198	-2191	-2162	-2177	26
Mar.	-2138	-2145	-2137	-2123	-2129	-2135	-2144	-2125	-2142	-2153	-2137	-2139	-2137	29
Apr.	-2062	-2089	-2052	-2071	-2071	-2076	-2070	-2095	-2064	-2086	-2085	-2086	-2076	29
May	-2069	-2067	-2060	-2068	-2064	-2060	-2049	-2073	-2065	-2067	-2070	-2062	-2064	31
June	-2058	-2060	-2043	-2070	-2037	-2043	-2056	-2076	-2052	-2072	-2058	-2052	-2056	29
July	-1995	-1983	-1977	-2004	-1988	-1993	-1981	-1990	-1978	-1995	-1978	-1977	-1986	31
Aug.	-2041	-2050	-2033	-2057	-2053	-2059	-2052	-2072	-2034	-2060	-2062	-2052	-2052	30
Sept.	-2111	-2114	-2089	-2126	-2114	-2122	-2131	-2124	-2108	-2131	-2111	-2101	-2115	30
Oct.	-2191	-2182	-2144	-2173	-2156	-2174	-2191	-2178	-2183	-2192	-2167	-2169	-2175	30
Nov.	-2224	-2203	-2191	-2213	-2213	-2219	-2218	-2232	-2227	-2217	-2215	-2214	-2216	29
Dec.	-2210	-2223	-2187	-2211	-2199	-2199	-2201	-2205	-2204	-2234	-2221	-2221	-2210	28
I	-2185	-2188	-2168	-2185	-2174	-2185	-2180	-2182	-2183	-2197	-2191	-2188	-2184	106
II	-2126	-2132	-2106	-2123	-2118	-2127	-2134	-2130	-2124	-2140	-2125	-2124	-2126	118
III	-2041	-2040	-2028	-2050	-2036	-2039	-2034	-2053	-2032	-2048	-2042	-2036	-2040	121
Year	-2117	-2120	-2101	-2119	-2109	-2117	-2116	-2122	-2113	-2128	-2119	-2116	-2117	345

TABLE 423

Diurnal Variation in Departures from Balance, (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 29 in. Hg, on 172.5° East Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Christchurch Magnetic Observatory, 1955

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	-2277	-2288	-2264	-2283	-2283	-2290	-2296	-2322	-2295	-2295	-2291	-2290	-2290	31
Feb.	-2312	-2316	-2280	-2300	-2306	-2300	-2312	-2339	-2309	-2307	-2305	-2307	-2308	28
Mar.	-2303	-2309	-2283	-2294	-2282	-2277	-2290	-2296	-2278	-2298	-2291	-2282	-2290	29
Apr.	-2315	-2311	-2302	-2298	-2298	-2290	-2311	-2310	-2330	-2328	-2334	-2310	-2311	25
May	-2300	-2302	-2304	-2292	-2298	-2300	-2284	-2286	-2297	-2304	-2321	-2313	-2300	31
June	-2253	-2252	-2247	-2255	-2227	-2227	-2255	-2236	-2233	-2260	-2259	-2264	-2247	29
July	-2255	-2229	-2230	-2218	-2220	-2208	-2231	-2220	-2259	-2248	-2238	-2246	-2234	31
Aug.	-2275	-2256	-2272	-2272	-2241	-2253	-2264	-2271	-2266	-2278	-2261	-2279	-2266	28
Sept.	-2383	-2347	-2344	-2348	-2355	-2369	-2366	-2359	-2391	-2377	-2367	-2387	-2366	20
Oct.	-2463	-2413	-2461	-2425	-2473	-2398	-2455	-2381	-2491	-2457	-2457	-2479	-2446	2
Nov.	-2451	-2436	-2413	-2445	-2442	-2419	-2432	-2435	-2447	-2434	-2454	-2441	-2438	18
Dec.	-2520	-2487	-2486	-2485	-2473	-2502	-2530	-2497	-2508	-2507	-2514	-2507	-2501	17
I	-2390	-2382	-2361	-2378	-2376	-2378	-2392	-2398	-2390	-2386	-2391	-2387	-2384	94
II	-2366	-2345	-2348	-2341	-2352	-2334	-2356	-2336	-2372	-2365	-2362	-2364	-2353	76
III	-2271	-2260	-2263	-2259	-2246	-2247	-2258	-2253	-2264	-2272	-2270	-2276	-2262	119
Year	-2342	-2329	-2324	-2326	-2325	-2320	-2335	-2329	-2342	-2341	-2341	-2342	-2333	289

TABLE 424

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 45th West Meridian Time, Godhavn Magnetic Observatory, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	96	47	64	26	17	1	-14	+1	-5	+3	18			1
2	94	48	69	25	9	4	-8	-7	-5	-2	24	32 h		2
3	102	52	60 c	33	4	-2	-6	-5	-17	+4	22	41 c		3
4	108	50	58	36	8	-3	-5	-2	-19	+14	23	41 e		4
5	94	48	64	46	11	4	-8	-5	-12	+20	29	42		5
6	96	46	64	54	21	0	-11	-5	-16	21	29	35		6
7	90	51	65	58	22	-5	-14	-6	-7	25	22	35		7
8	85	53	67	51	24	-2	-6	-6	-7 g	26	20	34		8
9	78	52	72	42	23	-4	-4	-9	-3 j	27	6	36		9
10	78	53	74	41	27	-7	+4	-6	+2	24	0	35		10
11	81	49	73	51	32		+3	-2	+5	18	2	30		11
12	86	54	64	57	32	-13	+2	-5	+3	13	0	27		12
13	84	57	51	59	28	-27 b	+2	-6	+3	10	6	30		13
14	89	60	47	59	26	-26 a	0	-2	-3	12	9	34		14
15	88 b	60	54	57	18	-23	-1	-8	-1 j	11	5	36 a		15
16	85	58	38	56	13	-15 a	-2	-30	+1	12	22	36		16
17	86	57	36	44	17	-12	-5	-32	+4	8	28	40		17
18	87	51	35	21	16	-14	-25	-25	+7	12	20 a	34		18
19	90	41	35	29	21	-9	-31	-17	+12	9		35		19
20	75	45	37	31	22	-8 g	-30	-16	+13	8	41 i	38		20
21	71	47	40	47	23	-3 i	-22	-10	+1	12	37	36		21
22	61	51	38	53	24	-11	-20	-18	+3	13	46	31		22
23	57	56	40	55	25	-12	-12 a	-14	-4	-21	46	35		23
24	51	58	41	47	8	-15	-11 d	-10	+3	-15 a	41	32		24
25	47	56	44	47	0	-26	-7 a	-3	+13	+19	33	32		25
26	57	60	41	45	6	-21	0	+2	+7	+20	22	29		26
27	64	66	37 b	33	8 b	-18	+2	0	+12	17	28	37		27
28	57	62	38	26	13 c	-16	+5	+2	+5	12	33	38		28
29	52		32	4	-3	-14	+4	-4	+3	12	42 e	36		29
30	44		31	19	-4	-15	+5	-1	+3	9		39		30
31	48		24		-4		+6	-2		12		41 g		31
Mean	76.8	53.1	49.5	41.7	15.7	-10.4	-6.9	-8.1	0.0	11.8	23.4	35.2		
	370	336	367	360	367	328	366	372	333	371	317	336	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 425

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 45th West Meridian Time, Godhavn Magnetic Observatory, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1		66	63		34	16	10	9 h				51		1
2	35 f	65	69		32	19	16	3 e				58		2
3	32	59	66		44	18	15	4				66		3
4	44	58	63	42	42	19	10	0				63		4
5	46	70 d	66	45	40	17	10	7				66		5
6	48		70	42	43	9	4	12				65		6
7	52		70	45	40	7	1 k	4				69		7
8	53		74	47	28	2	-4 e	10				75		8
9	53 f		62 b	50	-1	7	-4	18				72		9
10	57 a		66	49	-12 a	5	-1	17				62		10
11			70	51	-3	0 c	-7	15				64		11
12			68	50	+13	-6	-9	10				67		12
13	72 f		72	48	+10	-4	+4 a	11				66		13
14	76 d		72	41		0	+11	10				63		14
15			57	37		+2	+8	12			43 f	60		15
16			46	37		+6	+6	12 e			49	61		16
17		70	52	36 c		+9	+8				43	71 a		17
18		59	55	36 f	7 h	+10	+13				39			18
19		50	60	37	14	+10	+16 a				45 e			19
20		52	57	44	11	+12	+21				52			20
21		44	50	46	7	17	26 a				49	71 d		21
22		49	51	37	5	12					41	63		22
23		59	59	35	8	18	11 f				36	60		23
24		63	63	32	8	20	17				40	59		24
25		71	70	33	6	15	13				32	56		25
26		68	60	28	15	11	10				36 b	65		26
27		67	48	21	12	8	15				52 f	69		27
28		69		26	22	8	17				55	76		28
29		72		32	20	10 b	21				56	77		29
30	49 e			38	13	11 g	12				62	73		30
31	57				9		14					67		31
Mean	51.9	61.7	62.2	39.4	17.3	9.6	9.5	9.8			45.6	65.5		
	128	212	322	315	315	348	335	174			173	331	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 426

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 45th West Meridian Time, Godhavn Magnetic Observatory, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	69	87	74	54		19	15		6	58	63	56		1
2	72 f	79 a	80	54	48 i	23	15		11	57	71	66		2
3		74	84	53	38	40	15		15	54	71	69		3
4		70	82	54	40	21	19		22	40	69	65		4
5		74	79	49 h	48	21	25	3 h	24	42	65	63		5
6		78	68		45	19	21	9	30	39	66	62		6
7		82	70	56 h	42	16	18	8	37	42	63	60		7
8		78	78	47	37	16	15	12	33	42	63 b	51		8
9		79	80 k	45	35	15	19	16	33	47	60	58		9
10		82		52	33 b	16	19	17	35	48	43	67		10
11		80		46	28	10	14	22	37	43	48	68		11
12		83	77 i	32	27	15	15	23	38	48	46	67		12
13		92	81	20	18	13	10	21	35	47	52	70		13
14	77 h	94 f	75	31	25	17	10	17	35	32	48	71		14
15	83	107 g	62	40	27	13	10	23	27	26	61	74		15
16	92	100	62	48	31	6	14	22	32	26	61	69		16
17	102	96	54	52	27	12	13	23	35	28	60	64		17
18	104	84	67	64	27	13	20	19	36	33	60	70		18
19	95	86 b	73	64	26	11	12	22	33	40	106	72		19
20	85	85	74	64	27	11	16	21 h	35	44	60	76		20
21	83	89	82	59	18	13	21		36	41	52	77		21
22	87 a	82	74	60	14	11	12	20 a	40	45	50	72		22
23	86	85	72	62	8	19	20	28	40	40	53	66		23
24	92	92	65	54	14	17	15	32	40	39	63	62		24
25	65	94	64 e	58	18	21	14	43	40	44	63	58		25
26	73	80	52 h	60	22	15	19	34	45	46	62	63		26
27	87	78	57	60	18	21	20	31	48	42	65	60		27
28	83	78	60	57	15	20 g	16 f	29	45	47	64	60		28
29	78		52	56	24	20 g		27	65	46	66	59		29
30	67		49	50 j	23	17		21	59	55	60	48		30
31	72		54		21			18		60		49		31
Mean	82.6	84.6	69.0	51.8	27.5	16.7	16.1	21.6	34.6	43.3	61.2	64.3		
	225	320	318	322	349	346	330	291	360	372	358	372	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 427

Daily Mean Departures from Balance, +130 (in units of 0.1 per cent of total cosmic-ray ionization)
Corrected to 760 mm Hg, on 45th West Meridian Time, Godhavn Magnetic Observatory, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Day
1	41	78	64	50	35	30	9	17	31	44	44	50		1
2	41	76	68	52	38	26 f	12	17	33	46	40	53		2
3	49 a	74	79	50	42	25	19	15	34 a	50 c	38	56		3
4		61	88	48	45	24	11	18	31	49 g	46	51		4
5	55 h	66	90	46	43	26	7	11	37	51	50	62		5
6	50	60	77	44	40	24	5 e	14	43	54	56	63		6
7	54	63	67	48	43	22	17 b	18	46	56	64	70		7
8	55	68	54	49	40	22	17	13	41	62	61	62		8
9	60	66	47 a	48	35	27	16	16	42	57	65	67		9
10	57	60	32	41	31	35	17	18	44	55	66	67		10
11	59	64	34	38	32	30	22	24	44	42	67 i	65		11
12	54	63	38	39	18	25	25	30	48	41	71	54		12
13	64	66	40	43	2	31	18	35	53	48	73	39		13
14	78	67	40	42	5	30	15	38	53	42	70	43		14
15	73	70	49	46	8	32 h	16	29	51	52	71	52		15
16	72	81	61	50	17	32	14	22	47	56	77	56		16
17	69	88	69	50 a	14	33	10	24	43	61	77	61		17
18	70	90	69	45 g	22	29	14	14	39	66	67	69		18
19	78	93	66	44	25	18	14	13 b	40	65	61 g	68		19
20	80	84	61	41	27	18	17	12	48	68 a	53	69		20
21	86	74	58	42	22	16	19	12	48	65	50	73		21
22	95	56	65	34	20	11	12	14	48	69	53	74		22
23	101	55	69	26	10	10	15	18	50	64	38	59		23
24	100	37	66	23	11	2	14	13	38	68	47	54		24
25	90	34	54	20	16	4	10	19	38	64	58	57		25
26	111 g	43	55	18	28	5	14	29	45	60	48	53 b		26
27	94	58	44	20	25	8	16	36	42	55	48	47		27
28	91	64	37	30	18	11	16	34	39	50	66	50		28
29	84		43	33	20	12	14	35	43	45	65	61		29
30	81		46	33	20	10	14	43	44	38	52	63		30
31	80		44		25		9	39		40		65		31
Mean	72.4	66.4	57.2	39.8	25.1	20.9	14.5	22.8	42.8	54.3	58.1	59.1		
	344	336	371	348	372	346	361	370	359	361	344	370	No. of bihours	

LETTERS a TO k INDICATE THE NUMBER OF MISSING BIHOURLY VALUES 1 TO 11, RESPECTIVELY

TABLE 428

Diurnal Variation in Departures from Balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 45th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1947

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	770	770	767	742	769	781	779	765	775	765	747	738	764	30
Feb.	532	520	525	520	560	516	534	554	542	521	530	525	532	28
Mar.	487	498	484	499	491	497	503	516	504	493	502	476	496	29
Apr.	432	424	434	415	416	406	422	437	427	412	401	387	418	30
May	180	166	159	139	167	146	166	153	166	181	171	129	160	29
June	-111	-100	-115	-95	-87	-101	-71	-63	-79	-108	-102	-128	-97	24
July	-66	-66	-55	-84	-60	-66	-52	-54	-46	-68	-43	-86	-62	28
Aug.	-68	-92	-90	-93	-58	-79	-91	-93	-80	-74	-56	-92	-80	31
Sept.	-1	-12	-14	-18	+19	+5	+23	+14	+19	+03	+19	-12	+4	27
Oct.	+126	+113	+118	+128	+140	+126	+145	+136	+142	+130	+131	+97	+128	30
Nov.	+214	+214	+199	+204	+224	+192	+218	+247	+245	+222	+235	+240	+221	25
Dec.	+316	+317	+342	+321	+346	+346	+351	+372	+375	+371	+361	+334	+346	25
I	+458	+455	+458	+447	+475	+459	+470	+484	+484	+470	+468	+459	+466	108
II	+262	+256	+256	+256	+266	+259	+273	+276	+273	+260	+263	+237	+262	116
III	-16	-23	-25	-33	-10	-25	-12	-14	-10	-17	-8	-44	-20	112
Year	+235	+229	+230	+223	+244	+231	+244	+249	+249	+238	+241	+217	+236	336

TABLE 429

Diurnal Variation in Departures from Balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 45th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1948

	1h	3h	5h	7h	9h	11h	13h	15h	17h	19h	21h	23h	Mean	No. of complete days
Jan.	470	444	423	464	447	497	499	486	484	483	490	499	472	7
Feb.	614	599	612	570	609	612	610	615	634	635	641	599	612	17
Mar.	613	590	604	611	628	621	638	640	637	628	636	615	622	26
Apr.	370	365	399	389	392	389	429	407	405	412	411	397	397	25
May	181	180	165	180	195	190	190	206	206	190	187	188	188	25
June	89	71	98	100	100	110	112	115	121	101	86	81	99	27
July	97	69	89	86	96	67	125	105	108	97	103	107	96	24
Aug.	71	53	74	76	127	89	119	135	138	110	138	89	102	13
Sept.														
Oct.														
Nov.	487	462	471	470	442	467	457	460	455	494	423	438	461	12
Dec.	630	637	617	624	629	635	673	677	668	682	665	667	650	26
I	550	536	531	532	532	553	560	560	560	574	555	551	549	62
II	(492)	(478)	(502)	(500)	(510)	(505)	(534)	(523)	(521)	(520)	(524)	(506)	(510)	51
III	110	93	106	110	130	114	136	140	143	124	128	116	121	89
Year	384	369	380	381	391	391	410	408	408	406	402	391	393	202

TABLE 430

Diurnal Variation in Departures from Balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 45th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1949

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	821	813	812	822	814	853	855	847	832	839	832	857	833	17
Feb.	835	821	805	838	841	822	858	854	845	840	826	830	835	24
Mar.	688	680	687	680	698	681	705	713	689	699	694	685	692	25
Apr.	520	505	517	520	516	511	531	533	519	517	521	511	518	26
May	261	237	241	269	266	282	274	283	261	282	260	273	266	28
June	123	125	133	169	128	154	202	189	171	182	174	187	161	28
July	141	136	146	141	141	176	172	165	178	194	168	176	161	27
Aug.	204	198	198	214	199	214	253	220	250	257	242	251	225	23
Sept.	315	314	319	312	323	339	360	362	372	376	366	385	345	30
Oct.	409	397	415	425	426	444	425	461	443	445	460	459	434	31
Nov.	579	567	600	583	699	643	621	622	612	596	592	609	610	29
Dec.	629	621	641	614	638	644	682	644	659	652	642	641	642	31
I	716	706	714	714	748	740	754	742	737	732	723	734	730	101
II	483	474	484	484	491	494	505	517	506	509	510	510	497	112
III	182	174	180	198	184	206	225	214	215	229	211	222	203	106
Year	460	451	459	465	474	480	495	491	486	490	481	489	477	319

TABLE 431

Diurnal Variation in Departures from Balance, +1300 (in units of 0.01 per cent of total cosmic-ray ionization) Corrected to 760 mm Hg, on 45th West Meridian Time, for Days with Complete Records; by Months, Seasons, and Year, Godhavn Magnetic Observatory, 1950

	1^h	3^h	5^h	7^h	9^h	11^h	13^h	15^h	17^h	19^h	21^h	23^h	Mean	No. of complete days
Jan.	711	704	709	713	723	731	740	747	741	736	724	718	725	27
Feb.	633	644	657	638	674	676	678	689	683	668	669	656	664	28
Mar.	546	560	574	558	568	569	590	595	592	594	578	583	576	30
Apr.	377	376	382	384	398	389	391	400	406	412	390	392	391	28
May	228	219	253	255	249	266	247	265	244	267	250	262	250	31
June	196	162	200	180	196	215	231	198	222	232	197	210	203	28
July	132	137	151	127	123	164	132	147	171	154	144	170	146	29
Aug.	226	207	218	213	209	233	238	237	255	236	218	217	226	30
Sept.	406	409	402	427	413	442	426	452	461	434	432	424	427	29
Oct.	535	524	560	532	551	545	555	525	543	530	540	555	541	28
Nov.	569	570	563	575	583	574	585	574	586	573	590	568	576	28
Dec.	599	581	590	574	580	610	607	607	588	595	585	606	594	30
I	628	625	630	625	640	648	652	654	650	643	642	637	640	113
II	466	467	480	475	482	486	490	493	500	492	485	488	484	115
III	196	181	206	194	194	220	212	212	223	222	202	215	206	118
Year	430	424	439	431	439	451	451	453	458	452	443	447	443	346

CORRECTED TABULAR VALUES* FOR CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 175, VOLUME XIV, 1948

Table	Year	Month	Day	1	3	5	7	9	11	13	15	17	19	21	23	Sum.	No.of Values
53	1940	Oct	27									49	49			645	
			Sum									1868	1817			22482	
65	1941	Oct	29											—	—	841	10
			Sum	2451	2461	2453	2497	2564	2505	2554	2504	2497	2481	2430	2470	29867	370
68	1942	Jan	4											87		1009	
			Sum											2566		31144	
74	1942	Jul	26										91			1045	
			Sum										2695			33149	
75	1942	Aug	27				96									1109	
			Sum				2922									34433	
87	1943	Aug	4							91	94	89	91			1097	
			Sum							2813	2825	2728	2779			33230	
90	1943	Dec	3								100					1111	
			22									91				1169	
			Sum								3026	2998				35618	
96	1944	Jun	22						117							1320	
			Sum						3284							38702	
97	1944	Jul	30			—	116						110	112	117	1019	9
			31	115	110	108	112	110	114	116	117	116	108	117	112	1355	
			Sum	3250	3186	3229	3219	3207	3232	3252	3191	3173	3181	3266	3179	38565	366
98	1944	Aug	1	110	116	118	117	116	116	110	120	122	122	114	109	1390	
			Sum	3416	3434	3381	3412	3413	3468	3425	3445	3386	3361	3359	3306	40806	
103	1945	Jan	31					110								1247	
			Sum					3119								37455	

*Preliminary Tables Nos. 125, 136 for Huancayo, and 143-152, and 153-162 for Cheltenham in Publication No. 175, Volume XIV, are superseded by final Tables Nos. 121, 131, 368-377 and 387-396 in Publication No. 175, Volume XX.

— Indicates no values.

CORRECTED TABULAR VALUES FOR CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 175, VOLUME XIV, 1948

Table	Year	Month Season	1	3	5	7	9	11	13	15	17	19	21	23	Complete Days	No. of Complete Days
130	1940	Oct									602	586				
		II									589	589				
131	1941	Apr				702										
		Oct	817	820	818	832	855	835	851	835	832	827	810	823	829	30
		II	746	749	752	760	772						745	749	759	108
		Year				762							746	748	762	341
132	1942	Jan											827		837	
		Jul										876			864	
		Aug				942									926	
		I											877			
		III				880						877				
		Year											860			
133	1943	Aug							907	911	880					
		Dec								976					957	
		I								961					943	
		III							918	920						
134	1944	Jun						1095								
		Jul		1099	1113	1110	1106	1114		1100	1094	1097	1126	1096	1108	
		Aug	1139	1145	1127		1138		1142		1129					
		III		1095	1094							1079	1086	1074		
		Year		1073									1057			
135	1945	Jan					1076								1077	
		May												1032	1051	
		Oct												1134	1155	
		Dec							1115							
		I					1093		1109							
		II												1062		
		III												1075	1094	
		Year					1096							1072	1088	

CORRECTED TABULAR VALUES FOR CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 175, VOLUME XIV, 1948

Table	Year	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
117	1938	22	-1											
118	1939	19	42											
119	1940	27										54		
		Mean										60.5		
120	1941	26									78b			
		29										83b		
		Mean									79.5	83.0		
		Hours										370		
121	1942	4	84											
		26							87					
		27								92				
		Mean	83.7							92.6				
123	1944	22						110						
		30							113c					
		31							113					
		Mean							110.9					
		Hours							366					
124	1945	10										115		
		15					104							
		31	104											108
		Mean	107.3				104.9					115.3		108.7
178	1946	7										100a		
		8										110d		
		18												105
		22									128			
		Mean									113.1	107.8		108.4

CORRECTED TABULAR VALUES FOR CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 175, VOLUME XIV, 1948

Table	Year	Month	Day	1	3	5	7	9	11	13	15	17	19	21	23	Sum	No. of Values
107	1945	May	15												102	1253	
			Sum												2374	29014	
112	1945	Oct	10												104	1380	
			Sum												3175	38813	
114	1945	Dec	31		106					123						1298	
			Sum		3340					3456						40433	